

COMPUTER INFORMATION SYSTEMS - B.B.A.

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
www.kent.edu/business

About This Program

The Computer Information Systems B.B.A. program combines cutting-edge coursework with hands-on experience to prepare you for a successful career in the field. With access to state-of-the-art facilities, experienced faculty and real-world opportunities, you'll develop the skills needed to thrive in a variety of tech roles. Join our program today and pave the way for a bright future in computer information systems. Read more...

Contact Information

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- Speak with an Advisor
- Chat with an Admissions Counselor

Program Delivery

- **Delivery:**
 - In person
- **Location:**
 - Kent Campus

Examples of Possible Careers and Salaries*

Computer network support specialists

- 6.4% faster than the average
- 195,100 number of jobs
- \$65,450 potential earnings

Computer systems analysts

- 7.4% faster than the average
- 632,400 number of jobs
- \$93,730 potential earnings

Database administrators and architects

- 9.7% much faster than the average
- 132,500 number of jobs
- \$98,860 potential earnings

Software developers and software quality assurance analysts and testers

- 21.5% much faster than the average
- 1,469,200 number of jobs
- \$110,140 potential earnings

Computer occupations, all other

- 5.7% faster than the average
- 431,100 number of jobs
- \$92,870 potential earnings

Accreditation

AACSB, International - The Association to Advance Collegiate Schools of Business

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campuses to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. For more information on admissions, contact the Regional Campuses admissions offices.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information, visit the admissions website for international students.

Transfer Students: Students who have attended any other educational institution after graduating from high school must apply as undergraduate transfer students. For more information, visit the admissions website for transfer students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Admission policies for undergraduate students may be found in the University Catalog's Academic Policies.

Some programs may require that students meet certain requirements before progressing through the program. For programs with progression requirements, the information is shown on the program's Coursework tab.

Transfer Student: A minimum 2.250 overall GPA is required for admission into the major. Students who have previously attended Kent State who

completed (or the equivalent of) COMM 15000, ENG 21011 and/or MATH 11010 must have earned a minimum C grade in the courses and a minimum C+ grade in CIS 24053.

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CIS 34034	BUSINESS MODELING AND AGILE DESIGN (min C grade)	3
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	3
CIS 44048	BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC) (min C grade) ¹	3
CIS 44151	INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE	3
Major Electives, choose from the following: (min C grade) ²		12
Designing Innovative Information Systems		
CIS 34167	DESIGNING INNOVATIVE PROGRAMS AND APPS	
CIS 44040	DESIGNING INNOVATIVE SERVER-SIDE SYSTEMS	
CIS 44043	DATABASE DESIGN AND DATA GOVERNANCE	
Digital Transformation Management		
CIS 44008	MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS	
CIS 44041	MANAGING CYBERSECURITY	
CIS 44046	HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION	
Additional Electives		
BA 44050	DATA VISUALIZATION	
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR)	
Additional Requirements (courses do not count in major GPA)		
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I ³	3
BA 34060	OPERATIONS MANAGEMENT	3
BA 34156	BUSINESS ANALYTICS II	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES (min C+ grade)	3
BUS 10123	EXPLORING BUSINESS ⁴	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL) (min C grade)	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
FIN 36053	BUSINESS FINANCE	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR) (min C grade)	3
MATH 11012	INTUITIVE CALCULUS (KMCR) ⁵	3-5
or MATH 12002	ANALYTIC GEOMETRY AND CALCULUS I (KMCR)	
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
MGMT 44285	STRATEGIC MANAGEMENT	3
MKTG 25010	PRINCIPLES OF MARKETING	3

UC 10001	FLASHES 101	1
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Composition ⁶		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		3
Kent Core Basic Sciences (must include one laboratory)		6-7
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours) ⁷		16
Minimum Total Credit Hours:		120

¹ A minimum C must be earned to fulfill the writing-intensive requirement.

² Students may take any courses in this section to fulfill the major electives.

³ Students who have taken MATH 10041 for another program may use it as a substitute for BA 24056.

⁴ A student changing to a program in the college, transferring or an incoming student with college credit plus credits, may be waived out of BUS 10123 if:

- 30 or more credit hours have been earned and any two classes (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053) have successfully been completed.
- 60 or more credit hours have been earned and the student has completed one course (from ACCT 23020, ACCT 23021, FIN 26074, MGMT 24163, MKTG 25010 or CIS 24053)
- At the discretion of the Dean's Office, the student has sufficient breadth and depth of knowledge in a business field (as demonstrated by a CLEP exam or Credit by Exam) but does not meet the requirements listed above.

⁵ Students can take MATH 10051 or PHIL 21002 in place of MATH 11012 or MATH 12002. Taking MATH 10051 or PHIL 21002 will not replace a low grade in either MATH 11012 or MATH 12002. Students are required to take MATH 11012 or MATH 12002 if they change their major to, or want to double major in, Economics or Finance and/or intend to declare a minor in Business Analytics. Students who intend to enroll in certain graduate programs and/or are working toward Phi Beta Kappa status are highly encouraged to take MATH 11012 or MATH 12002.

⁶ Minimum C grade is required in ENG 21011 or HONR 20197.

⁷ An education abroad experience is encouraged as a general elective. A maximum of 4 credit hours of Physical Activity, Wellness and Sport (PWS) courses may be applied toward the degree program.

Progression Requirements

- Minimum 2.250 overall GPA
- Minimum C grade in COMM 15000, ENG 21011 (or HONR 20197) and MATH 11010 (or placement out of MATH 11010)
- Minimum C+ grade in CIS 24053
- Minimum C grade in major requirements

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.250

- Students must complete at least 50 percent of business credit hours (required for the business degree) in-residence on a Kent State University campus.

- Students must complete at least 50 percent of their major credit hours in residence on a Kent State University campus.
- Students must complete two measures of outcomes assessment as specified by the college for complete satisfaction of the B.B.A. degree.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits
BUS 10123	EXPLORING BUSINESS	3
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
UC 10001	FLASHES 101	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Two		Credits
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
CIS 24053	INTRODUCTION TO INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES	3
MATH 11012	INTUITIVE CALCULUS (KMCR)	3-5
or	or ANALYTIC GEOMETRY AND CALCULUS I	
MATH 12002	(KMCR)	
UC 10162	INTRODUCTION TO PROFESSIONAL DEVELOPMENT	1
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Three		Credits
ACCT 23020	INTRODUCTION TO FINANCIAL ACCOUNTING	3
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	3
ECON 22061	PRINCIPLES OF MACROECONOMICS (KSS)	3
FIN 26074	LEGAL ENVIRONMENT OF BUSINESS	3
Kent Core Requirement		3
Credit Hours		15
Semester Four		Credits
Required for progression in the major: Minimum 2.250 overall GPA, minimum C grade in COMM 15000, ENG 21011, MATH 11010; and a minimum C+ in CIS 24053.		
ACCT 23021	INTRODUCTION TO MANAGERIAL ACCOUNTING	3
BA 24056	BUSINESS ANALYTICS I	3
BUS 30062	ADVANCED PROFESSIONAL DEVELOPMENT	3
MGMT 24163	PRINCIPLES OF MANAGEMENT	3
Major Elective		3
Credit Hours		15
Semester Five		Credits
Required: minimum 2.250 overall GPA		
BA 34156	BUSINESS ANALYTICS II	3
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
MKTG 25010	PRINCIPLES OF MARKETING	3
Kent Core Requirement		3

General Elective		3
Credit Hours		15
Semester Six		Credits
Required: minimum 2.250 overall GPA		
BA 34060	OPERATIONS MANAGEMENT	3
FIN 36053	BUSINESS FINANCE	3
Major Elective		3
Major Elective		3
Kent Core Requirement		3
Credit Hours		15
Semester Seven		Credits
Required: minimum overall 2.250 GPA		
CIS 44151	INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE	3
! Major Elective		3
General Electives		9
Credit Hours		15
Semester Eight		Credits
Required: minimum overall 2.250 GPA and completion of The Assurance of Learning Assessment given in MGMT 44285		
CIS 44048	BUILDING SOLUTIONS FOR BUSINESSES (ELR) (WIC)	3
MGMT 44285	STRATEGIC MANAGEMENT	3
Kent Core Requirement		3
General Electives		4
Credit Hours		13
Minimum Total Credit Hours:		120

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Flashes 101 (UC 10001)	1 credit hour
Course is not required for students with 30+ transfer credits (excluding College Credit Plus) or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37 credit hours
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 credit hours
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120 credit hours

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

Program Learning Outcomes

Graduates of this program will be able to:

1. Perform effectively in digital transformation management and information systems design projects.
2. Navigate and use emerging digital technologies and platforms.
3. Design, code, and implement information systems, databases, and applications on-premise and in the cloud.
4. Design, select, and deploy digital transformation solutions and strategies.
5. Bridge, integrate, deploy, and manage cybersecurity and data governance across various information systems and analytics systems.
6. Lead and manage digital transformation projects, and design and integrate digital technology solutions.

Students earning a B.B.A. degree in Ambassador Crawford College of Business and Entrepreneurship are expected to have developed skills in the following critical areas of business:

1. Core Business Knowledge - Recall the strategic frameworks that are used to make business decisions.
2. Analytical Skills - Use analytical methodologies and critical thinking skills to evaluate and solve business problems.
3. Digital Technology – Demonstrate the technological skills necessary to analyze business problems and develop solutions.
4. Written Communication - Write effective business communications.
5. Oral Communication - Make effective business presentations, using appropriate technologies.
6. Teamwork – Collaborate effectively with others to achieve a common business purpose.
7. Business Ethics – Recognize ethical business dilemmas and use ethical decision making to resolve the dilemma.
8. Global - Analyze the key global factors when making business decisions.

Full Description

The Bachelor of Business Administration degree in Computer Information Systems provides students with a focus on digital transformation management and/or the design of innovative information systems that are commonly used in organizations to create business value. This up-to-date major offers a techie-for-future IT and business managers structure starting with an introduction to information systems (IS) and emerging digital technologies (e.g., social media, mobile, cloud computing, business data analytics, Internet of Things, artificial intelligence, machine learning, blockchain). The major continues providing the foundations and hands-on activities to use IS and digital technologies for solving business problems. The academic backbone of the major concludes with the pillars of business modeling and agile design, artificial intelligence-

based innovation, and providing the IT and business managerial skills to build solutions for businesses.

Students can complete two possible major elective tracks: Designing Innovative Information Systems or Digital Transformation Management. Alternatively, the student can customize the major elective path by selecting 12 credit hours from the list of major electives in a flexible and student-centric way. The Digital Transformation track focuses on providing the knowledge and managerial skills related to managing cybersecurity, managing agile digital transformation projects and on how to lead and manage digital transformation. The Designing Innovative Information Systems track focuses on providing the technical foundations and skills to design innovative programs and apps, design innovative server-side systems and design databases and data governance.

Students may participate in an internship (elective course), which may involve a summer or a semester of paid professional experience in industry. Internship experience helps show the relevance of on-campus courses to professional work, helps students focus their career plans and often enables students to secure better jobs upon graduation.

Computer Information Systems students may apply early to the M.B.A. degree and double count 9 credit hours of graduate courses toward both degree programs. See the Combined Bachelor's/Master's Degree Program policy in the University Catalog for more information.