

ENVIRONMENTAL HEALTH AND SAFETY - A.A.S.

Regional College

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Description

The Associate of Applied Science degree in Environmental Health and Safety provides students with the knowledge to work in a number of career areas in business and industry.

The Environmental Health and Safety major comprises the following concentrations:

- The **Environmental Safety and Security** concentration allows students to gain more expertise in the areas of chemical-biological safety and security, which have seen increased demand given the evolution of the homeland security-related professions. In addition, the concentration awards institutional credit for state certification for firefighters and Ohio peace officers. With this concentration, in-service students currently working in fire protection and law enforcement will be encouraged to pursue higher education in areas of interest to their careers.
- The **Environmental Technology** concentration provides students with a working knowledge of the source, nature and scope of conditions that are or could be hazardous to the environment. This concentration is primarily focused on students interested in an associate degree, although it can be articulated to Kent State's Bachelor of Technical and Applied Studies degree.
- The **Occupational Health and Industrial Hygiene** concentration allows students to articulate into the Bachelor of Science in Public Health degree at Kent State.

FULLY OFFERED AT:

- Trumbull Campus

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.

Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, and the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

For more information on admissions, contact the Regional Campuses admissions offices.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate knowledge required of an environmental technologist.
2. Understand core concepts in select biological and chemical sciences.
3. Master the basic skills necessary for environmental investigation and be knowledgeable in designing, collecting data and analyzing results of investigations.
4. Use oral and written expression to clearly communicate technical concepts.
5. Grow in intellectual ability, enhance problem-solving knowledge, and attain higher level reasoning skills for advanced study or work in the environmental sciences.

University Requirements

All students in an applied or technical associate 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.

| Code | Title | Credit Hours |
|------|---|--------------|
| | Destination Kent State: First Year Experience | 1 |
| | Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission. | |
| | Kent Core (see table below) | 15 |
| | Total Credit Hour Requirement | 60 |
| | Some associate degrees require students to complete more than 60 credit hours. | |

Kent Core Requirements

| Requirement | Credits/Courses |
|---|-----------------|
| Kent Core Composition (KCMP) | 3 |
| Kent Core Mathematics and Critical Reasoning (KMCR) | 3 |
| Kent Core Humanities and Fine Arts (KHUM/KFA) | 3 |
| Kent Core Social Sciences (KSS) | 3 |
| Kent Core Basic Sciences (KBS/KLAB) | 3 |
| Total Credit Hours: | 15 |

Program Requirements

Major Requirements

Major Requirements (courses count in major GPA)

| | | |
|---------------|--|---|
| EVHS 10004 | TOXICOLOGY | 3 |
| EVHS 10010 | INDUSTRIAL HYGIENE I | 4 |
| PH 10001 | INTRODUCTION TO PUBLIC HEALTH ¹ | 3 |
| or EVHS 10001 | ENVIRONMENTAL TECHNOLOGY I | |
| PH 30007 | PREVENTION AND CONTROL OF DISEASES | 3 |

Additional Requirements (courses do not count in major GPA)

| | | |
|------------|---|---|
| BSCI 10110 | BIOLOGICAL DIVERSITY (KBS) (KLAB) | 4 |
| BSCI 10120 | BIOLOGICAL FOUNDATIONS (KBS) (KLAB) | 4 |
| CHEM 10050 | FUNDAMENTALS OF CHEMISTRY (KBS) | 3 |
| CHEM 10052 | INTRODUCTION TO ORGANIC CHEMISTRY (KBS) | 2 |

| | | |
|--|---|-------|
| COMT 11000 | INTRODUCTION TO OFFICE PRODUCTIVITY APPS | 3 |
| GEOG 17063 | WORLD GEOGRAPHY (DIVG) (KSS) | 3 |
| GEOL 21062 | ENVIRONMENTAL EARTH SCIENCE (KBS) | 3 |
| MATH 11009 | MODELING ALGEBRA (KMCR) | 4 |
| UC 10097 | DESTINATION KENT STATE: FIRST YEAR EXPERIENCE | 1 |
| Kent Core Composition | | 3 |
| Kent Core Humanities and Fine Arts | | 3 |
| Concentrations | | |
| Choose from the following: | | 18-19 |
| Environmental Safety and Security | | |
| Environmental Technology | | |
| Occupational Health and Industrial Hygiene | | |
| Minimum Total Credit Hours: | | 64-65 |

¹ Students who plan to pursue the Bachelor of Science in Public Health degree should take PH 10001.

Graduation Requirements

| Minimum Major GPA | Minimum Overall GPA |
|-------------------|---------------------|
| 2.000 | 2.000 |

Environmental Safety and Security Concentration Requirements

[RE-AAS-EVHS-ESS]

| | | |
|--|---|----|
| Concentration Requirements (courses count in major GPA) | | |
| Concentration Electives, choose from the following: | | 18 |
| EVHS 20001 | ENVIRONMENTAL LAW | |
| EVHS 20004 | ENVIRONMENTAL HEALTH AND SAFETY I | |
| EVHS 20008 | ENVIRONMENTAL SAFETY ADMINISTRATION | |
| EVHS 20092 | ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR) | |
| EVHS 22095 | SPECIAL TOPICS IN ENVIRONMENTAL HEALTH AND SAFETY | |
| EVHS 30020 | HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE | |
| EVHS 40006 | FIRE PREVENTION AND CONTROL | |
| 120-Hour Firefighter State Certificate ¹ | | |
| 240-Hour Firefighter State Certificate ¹ | | |
| Ohio Peace Officer Training Academy Certification ¹ | | |
| Minimum Total Credit Hours: | | 18 |

¹ Credit for certification will be awarded after successful completion of all program coursework (49 credit hours).

Environmental Technology Concentration Requirements

[RE-AAS-EVHS-ENVT]

| | | |
|--|---|-----|
| Concentration Requirements (courses count in major GPA) | | |
| EVHS 20001 | ENVIRONMENTAL LAW | 3 |
| EVHS 20004 | ENVIRONMENTAL HEALTH AND SAFETY I | 3 |
| EVHS 20008 | ENVIRONMENTAL SAFETY ADMINISTRATION | 3 |
| EVHS 20092 | ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR) | 3 |
| EVHS 21092 | ENVIRONMENTAL TECHNOLOGY INTERNSHIP II (ELR) | 3 |
| Concentration Electives, choose from the following: | | 3-4 |
| EVHS 21010 | INDUSTRIAL HYGIENE II | |
| EVHS 22095 | SPECIAL TOPICS IN ENVIRONMENTAL HEALTH AND SAFETY | |
| EVHS 30002 | ENVIRONMENTAL ISSUES II | |
| EVHS 30020 | HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE | |
| EVHS 40006 | FIRE PREVENTION AND CONTROL | |
| Minimum Total Credit Hours: | | 18 |

Occupational Health and Industrial Hygiene Concentration Requirements

[RE-AAS-EVHS-OHIH]

| | | |
|--|---|----|
| Concentration Requirements (courses count in major GPA) | | |
| EVHS 20004 | ENVIRONMENTAL HEALTH AND SAFETY I | 3 |
| EVHS 20092 | ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR) | 3 |
| EVHS 21010 | INDUSTRIAL HYGIENE II | 4 |
| PH 10002 | INTRODUCTION TO GLOBAL HEALTH (DIVG) | 3 |
| PH 30004 | PUBLIC HEALTH RESEARCH | 3 |
| PH 30005 | SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH | 3 |
| Minimum Total Credit Hours: | | 19 |

Roadmaps

- Environmental Safety and Security Concentration
- Environmental Technology Concentration
- Occupational Health and Industrial Hygiene Concentration

Environmental Safety and Security Concentration

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.

| Course | Title | Credits |
|-----------------------------|--|---------|
| Semester One | | |
| BSCI 10110 | BIOLOGICAL DIVERSITY (KBS) (KLAB) | 4 |
| COMT 11000 | INTRODUCTION TO OFFICE PRODUCTIVITY APPS | 3 |
| EVHS 10001 | ENVIRONMENTAL TECHNOLOGY I or PH 10001 or INTRODUCTION TO PUBLIC HEALTH | 3 |
| EVHS 10004 | TOXICOLOGY | 3 |
| UC 10097 | DESTINATION KENT STATE: FIRST YEAR EXPERIENCE | 1 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 17 |
| Semester Two | | |
| EVHS 10010 | INDUSTRIAL HYGIENE I | 4 |
| GEOG 17063 | WORLD GEOGRAPHY (DIVG) (KSS) | 3 |
| MATH 11009 | MODELING ALGEBRA (KMCR) | 4 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 14 |
| Semester Three | | |
| BSCI 10120 | BIOLOGICAL FOUNDATIONS (KBS) (KLAB) | 4 |
| CHEM 10050 | FUNDAMENTALS OF CHEMISTRY (KBS) | 3 |
| GEOL 21062 | ENVIRONMENTAL EARTH SCIENCE (KBS) | 3 |
| Concentration Elective | | 6 |
| Credit Hours | | 16 |
| Semester Four | | |
| CHEM 10052 | INTRODUCTION TO ORGANIC CHEMISTRY (KBS) | 2 |
| PH 30007 | PREVENTION AND CONTROL OF DISEASES | 3 |
| Concentration Elective | | 12 |
| Credit Hours | | 17 |
| Minimum Total Credit Hours: | | 64 |

Environmental Technology Concentration

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.

| Course | Title | Credits |
|-----------------------------|--|---------|
| Semester One | | |
| BSCI 10110 | BIOLOGICAL DIVERSITY (KBS) (KLAB) | 4 |
| COMT 11000 | INTRODUCTION TO OFFICE PRODUCTIVITY APPS | 3 |
| EVHS 10001 | ENVIRONMENTAL TECHNOLOGY I or PH 10001 or INTRODUCTION TO PUBLIC HEALTH | 3 |
| EVHS 10004 | TOXICOLOGY | 3 |
| UC 10097 | DESTINATION KENT STATE: FIRST YEAR EXPERIENCE | 1 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 17 |
| Semester Two | | |
| EVHS 10010 | INDUSTRIAL HYGIENE I | 4 |
| EVHS 20004 | ENVIRONMENTAL HEALTH AND SAFETY I | 3 |
| GEOG 17063 | WORLD GEOGRAPHY (DIVG) (KSS) | 3 |
| MATH 11009 | MODELING ALGEBRA (KMCR) | 4 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 17 |
| Semester Three | | |
| BSCI 10120 | BIOLOGICAL FOUNDATIONS (KBS) (KLAB) | 4 |
| CHEM 10050 | FUNDAMENTALS OF CHEMISTRY (KBS) | 3 |
| EVHS 20001 | ENVIRONMENTAL LAW | 3 |
| EVHS 20092 | ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR) | 3 |
| GEOL 21062 | ENVIRONMENTAL EARTH SCIENCE (KBS) | 3 |
| Credit Hours | | 16 |
| Semester Four | | |
| CHEM 10052 | INTRODUCTION TO ORGANIC CHEMISTRY (KBS) | 2 |
| EVHS 20008 | ENVIRONMENTAL SAFETY ADMINISTRATION | 3 |
| EVHS 21092 | ENVIRONMENTAL TECHNOLOGY INTERNSHIP II (ELR) | 3 |
| PH 30007 | PREVENTION AND CONTROL OF DISEASES | 3 |
| Concentration Elective | | 3-4 |
| Credit Hours | | 14 |
| Minimum Total Credit Hours: | | 64 |

Occupational Health and Industrial Hygiene Concentration

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.

| Course | Title | Credits |
|-----------------------------|---|---------|
| Semester One | | |
| BSCI 10110 | BIOLOGICAL DIVERSITY (KBS) (KLAB) | 4 |
| COMT 11000 | INTRODUCTION TO OFFICE PRODUCTIVITY APPS | 3 |
| EVHS 10001 | ENVIRONMENTAL TECHNOLOGY I | 3 |
| or PH 10001 | or INTRODUCTION TO PUBLIC HEALTH | |
| EVHS 10004 | TOXICOLOGY | 3 |
| UC 10097 | DESTINATION KENT STATE: FIRST YEAR EXPERIENCE | 1 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 17 |
| Semester Two | | |
| EVHS 10010 | INDUSTRIAL HYGIENE I | 4 |
| EVHS 20004 | ENVIRONMENTAL HEALTH AND SAFETY I | 3 |
| GEOG 17063 | WORLD GEOGRAPHY (DIVG) (KSS) | 3 |
| MATH 11009 | MODELING ALGEBRA (KMCR) | 4 |
| Kent Core Requirement | | 3 |
| Credit Hours | | 17 |
| Semester Three | | |
| BSCI 10120 | BIOLOGICAL FOUNDATIONS (KBS) (KLAB) | 4 |
| CHEM 10050 | FUNDAMENTALS OF CHEMISTRY (KBS) | 3 |
| EVHS 21010 | INDUSTRIAL HYGIENE II | 4 |
| GEOL 21062 | ENVIRONMENTAL EARTH SCIENCE (KBS) | 3 |
| PH 10002 | INTRODUCTION TO GLOBAL HEALTH (DIVG) | 3 |
| Credit Hours | | 17 |
| Semester Four | | |
| CHEM 10052 | INTRODUCTION TO ORGANIC CHEMISTRY (KBS) | 2 |
| EVHS 20092 | ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR) | 3 |
| PH 30004 | PUBLIC HEALTH RESEARCH | 3 |
| PH 30005 | SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH | 3 |
| PH 30007 | PREVENTION AND CONTROL OF DISEASES | 3 |
| Credit Hours | | 14 |
| Minimum Total Credit Hours: | | 65 |