

# Environmental Technology

## School of Health, Exercise Science, and Athletics

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**Faculty** Marie Vicario-Fisher, M.P.H.

**Department Chair** Walt Justice, M.A.

### General Description

The Environmental Technology program has two areas of emphasis that allow students to specialize in the new and growing fields of environmental management and occupational health and safety. Environmental management emphasizes the study of and the solutions for environmental pollution and its effect on the environment and people. Occupational health and safety emphasizes the causes of and the solutions for hazardous agents in occupational settings, unsafe work practices, and their effect on human health and welfare.

### Career Options

Below is a sample of the career options available for the environmental major. Most of these require a certificate or an associate degree, or a bachelor's degree, and a few require a graduate-level degree: field sampling technician, environmental scientist, hazardous materials specialist, pollution control technician, environmental specialist, environmental compliance manager, environmental investigator, water quality technician, air quality aide, recycling coordinator, environmental economist, environmental lawyer, environmental journalist, waste management specialist, vocational teacher, transportation planner, legislative researcher, emergency responder, site remediation specialist, hazardous materials manager, wastewater treatment operator, pollution prevention specialist, toxicologist, environmental regulator, environmental activist, occupational health and safety specialist, risk analyst, and industrial hygienist.

### Degree/Certificate Options

#### Associate in Science Degree: Career/Technical

|                                | <b>Major Code</b> |
|--------------------------------|-------------------|
| Environmental Management       | A1971             |
| Occupational Health and Safety | A1973             |

#### Certificates of Achievement

|                                |       |
|--------------------------------|-------|
| Environmental Management       | A1972 |
| Occupational Health and Safety | A1974 |

*Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.*

## ASSOCIATE IN SCIENCE DEGREE

### Environmental Management

Career/Technical (Major Code: A1971)

Emphasis on waste treatment technologies, current hazardous waste and hazardous materials regulations, sustainable development, economic and sociopolitical environmental issues, small business and large facility compliance, emergency response techniques, toxicology, pollution prevention, and the cleanup of contaminated air, water, and soil.

|              |   |   |
|--------------|---|---|
| BIOL 140     | Environmental Biology                             | 3 |
| CHEM 100     | Introduction to General Chemistry                 | 4 |
| CHEM 110     | Elementary Organic and Biological Chemistry       | 4 |
| EHMT 100     | Introduction to Environmental Technology          | 4 |
| EHMT 110     | Waste Stream Generation, Reduction, and Treatment | 3 |
| EHMT 130     | Introduction to Toxicants                         | 3 |
| EHMT 150     | Waste Management Applications                     | 4 |
| EHMT 200     | Environmental Materials Management Applications   | 4 |
| EHMT 230     | Safety and Emergency Response                     | 4 |
| EHMT 290–293 |   |   |

Environmental Technology Cooperative  
Work Experience I–IV 2–4

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**Total units** **35–37**

**Recommended Electives:** BIOL 265; BUS 120, 152; CIS 101; COMM 103; GEOL 100; MATH 121, 250.

*To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.*

A 40-hour HAZWOPER certification that meets OSHA requirements for 29 CFR 1910.120 is given upon the successful completion of EHMT 230.



Some courses within this program may require additional coursework that must be completed prior to enrollment in those courses. Please consult the individual course listings for prerequisites and any other limitations on enrollment.

## Occupational Health and Safety

Career/Technical (Major Code: A1973)

Emphasis on the recognition, evaluation, and control of hazardous agents in the work environment; regulations pertaining to the California and Federal Occupational Safety and Health Administration; the toxicological effects of hazardous agents in the workplace, occupational diseases and methods of prevention; industrial safety practices; the administration and management of safety programs; and monitoring techniques for airborne contaminants, noise, heat, illumination, and radiation.

|              |  |   |
|--------------|--|---|
| BIOL 190     | Human Anatomy and Physiology                               | 4 |
| CHEM 100     | Introduction to General Chemistry                          | 4 |
| EHMT 100     | Introduction to Environmental Technology                   | 4 |
| EHMT 130     | Introduction to Toxicants                                  | 3 |
| EHMT 201     | Introduction to Industrial Hygiene and Occupational Health | 4 |
| EHMT 260     | Occupational Safety  | 3 |
| EHMT 261     | Occupational Safety Management                             | 3 |
| EHMT 230     | Safety and Emergency Response                              | 4 |
| EHMT 290–293 |  |   |

Environmental Technology Cooperative  
Work Experience I–IV 4–8

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**Total units** 33–37

**Recommended Electives:** BIOL 211, 265; MATH 119

*To earn an associate degree, additional general education and graduation requirements must be completed. See page 51.*

A forty-hour HAZWOPER certification that meets OSHA requirements for 29 CFR 1910.120 is given upon the successful completion of EHMT 230.

## CERTIFICATES

### Environmental Management

Certificate of Achievement

Career/Technical (Major Code: A1972)

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|                    |   |           |
|--------------------|---|-----------|
| EHMT 100           | Introduction to Environmental Technology          | 4         |
| EHMT 110           | Waste Stream Generation, Reduction, and Treatment | 3         |
| EHMT 130           | Introduction to Toxicants                         | 3         |
| EHMT 150           | Waste Management Applications                     | 4         |
| EHMT 200           | Environmental Materials Management Applications   | 4         |
| EHMT 230           | Safety and Emergency Response                     | 4         |
| <b>Total units</b> |   | <b>22</b> |

### Occupational Health and Safety

Certificate of Achievement

Career/Technical (Major Code: A1974)

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|                    |  |           |
|--------------------|--|-----------|
| EHMT 100           | Introduction to Environmental Technology                   | 4         |
| EHMT 130           | Introduction to Toxicants                                  | 3         |
| EHMT 201           | Introduction to Industrial Hygiene and Occupational Health | 4         |
| EHMT 230           | Safety and Emergency Response                              | 4         |
| EHMT 260           | Occupational Safety  | 3         |
| <b>Total units</b> |  | <b>18</b> |

**Recommended Electives:** BIOL 211, 265; MATH 119

A forty-hour HAZWOPER certification that meets OSHA requirements for 29 CFR 1910.120 is given upon the successful completion of EHMT 230.