

ENVIRONMENTAL TECHNOLOGY

SCHOOL OF BUSINESS AND TECHNOLOGY

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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

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

ASSOCIATE IN SCIENCE DEGREE

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.

Program Student Learning Outcome Statement

- Discuss and produce analytical writing using critical thinking and logical reasoning techniques concerning major ideas and themes in literature.

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 202	Water and Wastewater Management	4
EHMT 230	Safety and Emergency Response	4
EHMT 290–293		

Environmental Technology Cooperative
Work Experience I–IV 2–4

Total units 39–41

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 64.

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

OCCUPATIONAL HEALTH AND SAFETY

ASSOCIATE IN SCIENCE DEGREE

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.



Program Student Learning Outcome Statement

- Speak authoritatively and actively to present training information to others and then listen to their feedback to confirm the quality of training presented.

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
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 64.

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)

Program Student Learning Outcome Statement

- Speak authoritatively and actively to present training information to others and then listen to their feedback to confirm the quality of training presented.

GAINFUL EMPLOYMENT:

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that “prepares students for gainful employment in a recognized occupation.”

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

For more information regarding the data provided for this program and what it means to you as a student, please feel free to visit our SWC Gainful Employment website at: www.swccd.edu/gainfulemployment

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
Total units		22

OCCUPATIONAL HEALTH AND SAFETY

CERTIFICATE OF ACHIEVEMENT

CAREER/TECHNICAL (MAJOR CODE: A1974)

Program Student Learning Outcome Statement

- Speak authoritatively and actively to present training information to others and then listen to their feedback to confirm the quality of training presented.

GAINFUL EMPLOYMENT:

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that “prepares students for gainful employment in a recognized occupation.”

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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
Total units		18

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.

