

Associate in Science Environmental Technology Program

To graduate in the Environmental Technology Program, a student must complete the following required course of study.

Course #	Course Title	Credits	Prerequisites	Semester Offered	Semester Taken	Grade Earned
General Education						
CHM106	Survey of Chemistry	4	MAT020 or satisfactory basic skills assessment score	Fall, Spring		
COM103	Human Communication	3	ENL010 or ESL102 or satisfactory basic skills assessment score	Fall, Spring, Summer		
ENL101	English Composition I	3	Appropriate score on the Computerized Placement Test or grade of C or better in ENL050 or ESL201	Fall, Spring, Summer		
ENL102	English Composition II	3	A grade of C or higher in ENL101	Fall, Spring, Summer		
ESC101	Intro to Earth Science	4	MAT030, ENL020, ENL050 or satisfactory basic skills assessment scores	Fall, Spring		
	Behavioral and Social Sciences	3				
	Behavioral and Social Sciences	3				
Professional Education						
ENV101	Survey of Environmental Technology	3		Fall, Spring		
ENV105 (or) MAT150	Quantitative Methods for Environmental Analysis (or) Elementary Statistics	3	MAT030 (or) MAT040, ENL020	Fall, Spring, Summer		
ENV115	Environmental Chemistry	3	CHM106	Fall		
ENV118	Intro. to Environmental Science	4	MAT020, ENL020 & ENL050 or satisfactory basic skills assessment scores	Fall, Spring, Summer		
ENV125	Coastal Ecology	3		Fall, Spring, Summer		
ENV158	Occupational Health and Safety (OSHA) through Hazardous Waste Management	3		Spring		
ENV160	Introductory Concepts in GIS	3		Spring, Summer		
ENV201	Environmental Instrumentation	4	ENV105, ENV115	Spring		
	Environmental Tech elective*	3				
	Environmental Tech elective*	3				
	Environmental Tech elective*	3				
	Environmental Tech elective*	3				
	Environmental Tech elective*	3				
ENV260	Internship**	3	ENV118 or ENV170, permission of the instructor	Fall, Spring, Summer		
Total Credits:		67				

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Overview: This program emphasizes the cognitive and technical skills needed to enter and advance in environmental technology careers in both the private and public sectors. This is a career field that utilizes the principles of science, engineering, communication and economics to protect and enhance safety, health and natural resources. Students who are interested in pursuing a four-year undergraduate program in Environmental Studies should refer to the Associate in Arts Environmental Studies concentration.

Career Outlook: Graduates will be trained at the technical level for fields such as hazardous waste clean-up, site assessment, water quality, air quality, wastewater management, environmental compliance, solid waste management, coastal zone management, use of computerized mapping and pollution prevention.

Program Outcomes

Upon successful completion of the Environmental Technology program, students shall be able to:

- Communicate and discuss current environmental topics and be able to provide an overview of environmental technology
- Apply scientific, technical, and communication skills and knowledge to specific tasks
- Be proficient at using state-of-the-art scientific instrumentation to perform air, water, and soil analysis
- Be certified in 40-hour OSHA for hazardous waste
- Conduct monitoring in the field and demonstrate the ability to analyze the data in a laboratory setting
- Be proficient in a discipline of environmental technology, including coastal zone management, hazardous waste site assessment, geographic information systems, wastewater management, water quality, energy efficiency and/or renewable energy.

* Environmental Technology Electives:

ENV117 Intro to Marine Mammal Biology
ENV122 Process of Env. Mgmt & Decision Making
ENV131 Physical Oceanography & Coastal Structures
ENV135 Coastal Zone Management
ENV140 Intro to Water
ENV142 Industrial Wastewater Treatment
ENV145 Wastewater Treatment Plant Operation
ENV146 Water Supply

GIT110 Microcomputer Applications Software
CON130 Computer Aided Drafting I
CON135 Computer Aided Drafting II
HOR101 Plant and Soil Science
HOR102 Entomology and Plant Diseases
HOR103 Woody Plant Identification and Culture
HOR104 Turf Management
HOR201 Herbaceous Plant Identification and Culture

ENV152 Air Pollution Issues
ENV163 GIS I
ENV164 GIS II
ENV170 Renewable Energy Sources
ENV171 Energy Efficiency and Conservation Methods
ENV172 Commercial Energy Audits
ENV173 Intro to Solar Energy
ENV177 Intro to Wind Energy

** To be taken during the summer or during the third or fourth semester.