

LIBERAL ARTS AND SCIENCE
Environmental Science Option
Degree: Associate in Science
College Code: ENV.AS

Program Description

This transfer program is designed for students who have a strong interest in environmental science and plan to major in environmental science, ecology or biology at a four-year college or university

Program Goals

- To prepare students for entry-level positions in environmental science related fields that require an associate in science degree such as: environmental laboratory technician, water quality technician or research assistant in an environmental or ecology academic research laboratory.
- To provide students with a foundation in general education.
- To provide a concentration of course work appropriate for the biological sciences, focusing on environmental studies.
- To ensure transferability of course work to a baccalaureate program in biology, environmental science, ecology or science education

Program Student Learning Outcomes

At the end of the program the graduate will be able to:

1. Utilize primary and secondary sources in the scientific literature to obtain information pertaining to environmental science.
2. Apply the scientific method to conduct experiments and analyze data.
3. Describe the important chemical and physical factors that have major effects on ecosystems.
4. Discuss the four scientific principles of sustainability
5. Summarize the root causes of the major environmental problems.
6. Describe the four major components of biodiversity and the importance of maintaining biodiversity

Employment Opportunities

- Environmental laboratory technician
- Water quality technician
- Research assistant in an environmental or ecology academic research laboratory
- Preparation for research work in environmental science, ecology, field or conservation biology
- Preparation for careers in environmental related technologies.
- Education

Contact Person

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Code	Course	Credits
First Year/First Semester		
ENG-101	English Composition I	3
BIO-111	Biology I - Science	4
CHM-111	Chemistry I - Science	4
MTH-140	Calculus I	4
		15
Second Semester		
ENG-102	English Composition II	3
BIO-112	Biology II - Science	4
CHM-112	Chemistry II - Science	4
MTH-150	Calculus II or	
MTH-134	Biostatistics	4
		15
Second Year/First Semester		
ANT-102	Introduction to Physical Anthropology	3
BIO-206	Environmental Science: Theory & Applications	4
BIO-225	Introduction to Plant Biology	4
PHY-101 or	Physics I or	
PHY-201	Physics III	4
		15
Second Semester		
BIO-221	Microbiology I	4
BIO-255	Research Experience in Biology or	
BIO-250	Co-op I: Science	3
GEO-101	Cultural Geography	3
PHY-102 or	Physics II or	
PHY-202	Physics IV	4
.....	Humanities General Education Elective ¹	3
		17
	Total Minimum Credits	62

¹Select elective based on requirements of Transfer Institution