

# ENVIRONMENTAL SCIENCE, BS

Students enrolled in the Environmental Science, BS Program, may choose one of two emphases: Humanity and Environment or Natural Science.

The Humanity and Environment emphasis is designed primarily as a major for students interested in careers in environmental law, environmental journalism, environmental education, or public service. This option is also a good choice as a second major for students in such areas as business, English, education, or political science.

The Natural Science emphasis has a strong life science component and prepares students for employment in environmental consulting firms, environmental education centers, government agencies, or graduate study and research.

Code	Title	Credits
<b>Core Requirements</b>		
<i>Environmental Science Courses</i>		
ENVS 101	Physical Geology	3
ENVS 101L	Physical Geology Lab	1
ENVS 102	Historical Geology	3
ENVS 102L	Historical Geology Lab	1
ENVS 107	Introduction to ArcGIS	2
ENVS 180	Environmental Science: Introduction	3
ENVS 180L	Environmental Science: Introduction Lab	1
ENVS 301	Basic Soil Science	3
ENVS 301L	Basic Soil Science Lab	1
ENVS 310	Hydrology	3
ENVS 310L	Hydrology Lab	1
ENVS 400	Environmental Data Analysis & Presentation	2
<i>Biology Courses</i>		
BIOL 200	Introduction to Cellular Biology	3
BIOL 200L	Introduction to Cellular Biology Lab	1
BIOL 201	Introduction to Biodiversity & Evolution	3
BIOL 201L	Introduction to Biodiversity & Evolution Lab	1
BIOL 287	Sophomore Biology Seminar	1
BIOL 302	Botany	3
BIOL 302L	Botany Lab	1
Choose <b>one</b> of the following emphases:		36-38
<b>Humanity and Environment Emphasis (36-37 Credits)</b>		
<i>Chemistry Courses</i>		
CHEM 121	Basic Chemistry <sup>1</sup>	
CHEM 121L	Basic Chemistry Lab	
CHEM 122	Introductory Organic/Biochemistry <sup>1</sup>	
CHEM 122L	Introduction to Organic/Biochemistry Lab	
<i>Humanities Courses</i>		
ENG 360	Scientific & Technical Writing	
PHIL 107	Environmental Ethics	
<i>Restricted Science Electives</i>		
Select <b>two</b> of the following; at least one must include a lab		
BIOL 310	Vertebrate Zoology	
BIOL 310L	Vertebrate Zoology Lab	

ENVS 302	Geomorphology
ENVS 303	Meteorology
ENVS 311	Environmental Geology
ENVS 312	Rocks & Minerals
ENVS 351	Environmental Toxicology
ENVS 352	Plant Nutrients in the Environment
ENVS 401	Wetland Ecology
ENVS 401L	Wetland Ecology Lab
ENVS 406	Limnology
ENVS 406L	Limnology Lab
ENVS 426	Soil Morphology & Genesis
ENVS 426L	Soil Morphology & Genesis Lab
ENVS 486	Advanced Special Topics

### *Restricted Humanities Electives*

Select **five** upper-division courses from three areas of study:

AGBU 3XX	Agribusiness Courses numbered 300 or above
BADM 3XX	Business Admin Courses numbered 300 or above
ECON 3XX	Economics Courses numbered 300 or above
ENG 3XX	English Courses numbered 300 or above
ED 3XX	Education Courses numbered 300 or above
ENVS 307	Advanced GIS and Spatial Analysis
FIN 3XX	Finance Courses numbered 300 or above
GEOG 3XX	Geography Courses numbered 300 or above
HIST 3XX	History Courses numbered 300 or above
JUAD 3XX	Justice Admin Courses numbered 300 or above
MGMT 3XX	Management Courses numbered 300 or above
PHIL 3XX	Philosophy Courses numbered 300 or above
POL 3XX	Political Science Courses numbered 300 or above
PSYC 3XX	Psychology Courses numbered 300 or above
SOCI 3XX	Sociology Courses numbered 300 or above
SPCH 3XX	Speech Comm Courses numbered 300 or above

### **Natural Science Emphasis (36-38 Credits)**

#### *Biology Courses*

BIOL 311	Ecology
BIOL 311L	Ecology Lab

#### *Chemistry Courses*

CHEM 231	General Chemistry I
CHEM 231L	General Chemistry I Lab
CHEM 232	General Chemistry II
CHEM 232L	General Chemistry II Lab

#### *Physics Courses*

PHYS 141	College Physics I
PHYS 141L	College Physics I Lab
PHYS 142	College Physics II
PHYS 142L	College Physics II Lab

#### *Math Course*

MATH 200	Introduction to Statistics
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#### *Humanities Courses*

ENG 360	Scientific & Technical Writing
PHIL 107	Environmental Ethics

#### *Restricted Electives*

Select **two** courses, at least one must include a lab:

BIOL 303	Microbiology
BIOL 303L	Microbiology Lab
BIOL 310	Vertebrate Zoology
BIOL 310L	Vertebrate Zoology Lab
BIOL 321	Genetics
BIOL 321L	Genetics Lab
CHEM 344	Instrumental Analysis
ENVS 302	Geomorphology
ENVS 303	Meteorology
ENVS 307	Advanced GIS and Spatial Analysis
ENVS 311	Environmental Geology
ENVS 312	Rocks & Minerals
ENVS 351	Environmental Toxicology
ENVS 352	Plant Nutrients in the Environment
ENVS 353	Soil Conservation and Land Use Management
ENVS 401	Wetland Ecology
ENVS 401L	Wetland Ecology Lab
ENVS 406	Limnology
ENVS 406L	Limnology Lab
ENVS 426	Soil Morphology & Genesis
ENVS 426L	Soil Morphology & Genesis Lab
ENVS 486	Advanced Special Topics
HIST 310	Environmental History
<b>Total Credits</b>	<b>73-75</b>

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May substitute CHEM 231 General Chemistry I (3 cr.), CHEM 232 General Chemistry II (3 cr.).

**Notes:**

- Students should consult with their Environmental Science advisor regarding the selection of the Humanities Electives.
- One course at the 200-level **may** be allowed but only with the approval of the student's Environmental Science advisor.

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