Undergraduate Certificate Program in Environmental Studies

ENVIRONMENTAL STUDIES
Ira D. Sasowsky, Ph.D., Director

Program
The objective of the Environmental Studies Certificate program is to provide students with an interdisciplinary background by encouraging them to take environmentally related courses that will complement their academic major. The program is very flexible and can be tailored to an individual student's career objective. Environmental Studies Certificates have been earned by students with a wide range of academic majors including; biology, chemical and civil engineering, economics, education, English, geography, geology, political science, sociology, and urban studies.

Admissions
To participate in the program the student should:
• Be formally admitted to The University of Akron as an undergraduate student.
• Be in good academic standing in their major department.
• Make a written application to the program and receive written notification of admission from the Center for Environmental Studies.

Requirements
The program requirements consist of two interdisciplinary environmental studies courses (an introductory elective and a capstone seminar course) along with approximately 3 to 4 other required environmental courses. Students must complete 16 credit hours including 5 credits of required Environmental Studies courses and 11 credits from the list of approved electives. Courses within a student’s major may not count toward the certificate. A student’s plan of study for this certificate will be developed in consultation with the Director of the Center for Environmental Studies.

Core (required):
- 3370:211 Introduction to Environmental Science (formerly 3010:201) Credits 3
- 3370:480 Seminar in Environmental Studies (formerly 3010:401) Credits 2

Electives
(11 Credits minimum)
- 2230:250 Hazardous Materials Credits 4
- 2800:232 Environmental Sampling Lab Credits 3
- 3100:217 General Ecology Credits 3
- 3100:342 Flora and Taxonomy Credits 3
- 3100:421 Tropical Field Biology Credits 4
- 3100:418 Field Ecology Credits 4
- 3100:426 Wetland Ecology Credits 4
- 3100:427 Aquatic Ecology Credits 4
- 3100:430 Community/Ecosystem Ecology Credits 4
- 3150:100 Chemistry and Society Credits 3
- 3250:385 Econ. of Natural Resources and the Environment Credits 3
- 3350:310 Physical and Environmental Geography Credits 3
- 3350:335 Recreation Resource Planning Credits 3
- 3350:351 Ohio Environment and Society Credits 3
- 3350:405 Geographic Information System Credits 3
- 3350:407 Adv. Geographic Information System Credits 3
- 3350:436 Urban Land Use Analysis Credits 3
- 3350:447 Introduction to Remote Sensing Credits 3
- 3350:495 Soil and Water Field Studies Credits 3
- 3370:121-137 Concepts in Geology (121,122,125,127,128,129,133,135,136,137) Credits 1
- 3370:200 Environmental Geology Credits 3
- 3370:201,203 Exercises in Environmental Geology Credits 1
- 3370:301 Engineering Geology Credits 3

For more information contact:
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(330) 972-5389
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<table>
<thead>
<tr>
<th>Electives</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>3370:451</td>
<td>Field/Lab Studies in Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(formerly 3010:495)</td>
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<tr>
<td>3370:480</td>
<td>Seminar in Environmental Studies</td>
<td>2</td>
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<tr>
<td></td>
<td>(may repeat as an elective, if different topic)</td>
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<tr>
<td>3370:490</td>
<td>Workshop in Environmental Studies</td>
<td>1-4</td>
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<tr>
<td></td>
<td>(formerly 3010:490)</td>
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<tr>
<td>3370:470</td>
<td>Geochemistry</td>
<td>3</td>
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<td>3370:474</td>
<td>Ground Water Hydrology</td>
<td>3</td>
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<td>3400:471</td>
<td>American Environmental History</td>
<td>3</td>
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<tr>
<td>3700:412</td>
<td>Global Environmental Politics</td>
<td>3</td>
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<tr>
<td>3850:321</td>
<td>Population</td>
<td>3</td>
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<tr>
<td>4100:203</td>
<td>Environmental Science and Engineering</td>
<td>3</td>
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<td>4200:463</td>
<td>Pollution Control</td>
<td>3</td>
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<tr>
<td>4300:323</td>
<td>Water Supply and Pollution Control</td>
<td>3</td>
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<td>4300:423</td>
<td>Chemistry for Environmental Engineering</td>
<td>3</td>
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<td>4300:424</td>
<td>Water-Wastewater Laboratory</td>
<td>1</td>
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<td>4300:426</td>
<td>Environmental Engineering Design</td>
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<td>4300:427</td>
<td>Water Quality Modeling and Management</td>
<td>3</td>
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<tr>
<td>4300:428</td>
<td>Hazardous and Solid Waste</td>
<td>3</td>
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Workshops, Selected Topics, and other courses approved by the Director of Environmental Studies may also satisfy elective credits.

**What the department codes mean:**

2230: Fire Protection and Technology
2800: Environmental Health & Safety Technology
3100: Biology
3150: Chemistry
3250: Economics
3350: Geography and Planning
3370: Geology
3400: History
3700: Political Science
3850: Sociology
4100: General Engineering
4200: Chemical Engineering
4300: Civil Engineering