



The University of Akron

Graduate Certificate Program in Environmental Studies

ENVIRONMENTAL STUDIES

Ira D. Sasowsky, Ph.D., *Director*

Program

This graduate certificate program is designed for environmental professionals who wish to broaden their background or update their skills. In order to satisfy the course prerequisites, it is recommended that students have an undergraduate degree in one of the natural sciences, engineering, or a strong background in mathematics and science.

Admissions

To participate in the program the student should:

- Be formally admitted to The University of Akron as a graduate or non-degree graduate student. If pursuing another graduate degree, then the Certificate program must be applied for separately.
- Make an appointment with the Director to complete a departmental application to the program, agree on a course of study, and receive written notification of admission from the Center for Environmental Studies.

Requirements

A plan of study will be developed in consultation with the director of the Center for Environmental Studies. Students must complete the core requirement and a minimum of 14 credits from the list of electives or other courses approved by the director. Electives must be selected from a minimum of three different departments.

What department codes mean:

BIOL: Biology
 GEOG: Geography and Planning
 GEOL: Geology
 HIST: History
 STAT: Statistics
 POLIT: Political Science
 SOCIO: Sociology
 CHEE: Chemical Engineering
 CIVE: Civil Engineering
 MSL: Law Instruction

For more information contact:

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| Core (required): | Course Name | Credits |
|--|--|---------|
| GEOL:580 | Seminar in Environmental Studies (formerly 3010:501) | 2 |
| Electives (Minimum 14 credits) | | |
| BIOL:521 | Tropical Field Biology | 4 |
| BIOL:524 | Freshwater Ecology | 3 |
| BIOL:525 | Freshwater Ecology field and Laboratory Studies | 3 |
| BIOL:526 | Applied Aquatic Ecology | 4 |
| BIOL:660 | Environmental Physiology | 3 |
| GEOG:505 | Geographic Information Systems | 3 |
| GEOG:507 | Advanced Geographic Information Systems | 3 |
| GEOG:547 | Remote Sensing | 3 |
| GEOG:549 | Advanced Remote Sensing | 3 |
| GEOG:595 | Soil and Water Field Studies | 3 |
| GEOL:451 | Field/Lab Studies in Environmental Studies (formerly 3010:595) | 3 |
| GEOL:570 | Geochemistry | 3 |
| GEOL:574 | Groundwater Hydrology | 3 |
| GEOL:580 | Seminar in Environmental Studies (formerly 3010:501) | 3 |
| GEOL:661 | Geologic Record of Past Global Change | 3 |
| GEOL:674 | Advanced Groundwater Hydrology | 3 |
| GEOL:678 | Urban Geology | 3 |
| HIST:571 | American Environmental History | 3 |
| STAT:561 | Applied Statistics I | 4 |
| POLIT:512 | Global Environmental Politics | 3 |
| SOCIO:686 | Population | 3 |
| CHEE:563 | Pollution Control | 3 |
| CHEE:750 | Advanced Pollution Control | 3 |
| CIVE:523 | Chemistry for Environmental Engineers | 3 |
| CIVE:526 | Environmental Engineering Design | 3 |
| CIVE:527 | Water Quality Modeling and Management | 3 |
| CIVE:528 | Hazardous and Solid Wastes | 3 |
| CIVE:620 | Sanitary Engineering Problems | 2 |
| CIVE:621 | Environmental Engineering Principles | 4 |
| CIVE:631 | Soil Remediation | 3 |
| CIVE:731 | Bioremediation | 3 |
| MSL:661 | Environmental Law | 3 |