

Environmental Science at Wittenberg



Wittenberg offers both B.A. and B.S. degrees in environmental science and a minor in environmental studies. You select an interdisciplinary theme of study so that you have the depth of exposure and critical skills relevant to a particular area of the environment. Students complete their degree with:

- practice in varied field settings on a variety of environmental problems ;
- experience using appropriate methodologies and analysis techniques in applied settings;
- applied field and laboratory skills that environmental scientists routinely use on community problems;
- engagement with professionals in the local community; and
- opportunities to effectively communicate research results in local, regional, or national forums.



Our Current Areas of Expertise Include ...

Themes of Study

Conservation Biology Conservation biologists work in both the public and private sectors managing ecosystems and researching management strategies to preserve natural habitats and sustain endangered species. Foundational and advanced courses in biology and geology.

Aquatic Ecosystems Stream biologists work for local, state, and federal government agencies, for the environmental or engineering consultants, for environmental groups, and in education on a variety of tasks ranging from fish and macroinvertebrate surveys to habitat evaluation and design. Foundational and advanced courses in biology, chemistry, and geology.

Stream Resources Stream resource managers will evaluate the effects of landuse along stream corridors and implement stream restoration. Career opportunities in physical stream processes and systems involve stream and watershed surveys and stream geomorphic assessments, habitat design and improvement, and bank stabilization and waterway design. Foundational and advanced courses in geology and physics.

Water Resources Career opportunities in water resources are found with government agencies, in the private sector with environmental or engineering consultants, with environmental groups, with companies that use significant water resources, and in education. Foundational and advanced courses in chemistry and geology.

Wildlife Management Careers in wildlife management might involve maintaining wildlife populations and habitats, collecting and interpreting data on wildlife and habitats, including behavior, disease, and population dynamics or enforcing wildlife laws and regulations. Foundational and advanced courses in biology and geology.

Don't See Your Passion in the Environment? Create your own theme in ...

Organizational Structure of Thematic Curricula in the Environmental Science

Core Courses

(BA and BS)

ESCI 101 Introductory Environmental Science (5) Spring Semester Year 1 or 2
ESCI 250 Environmental Research Methods (5) Fall Semester Year 2 or 3
ESCI 494 Senior Seminar (2 cr) Spring Semester Year 4

Social Sciences

(4 cr for BA and 8 cr for BS)

Courses chosen in consultation with an advisor from an approved list of courses with environmental content and relevance to the theme of study.

Math and Computer Science

(4 cr for BA and 8-9 cr for BS)

Course in statistics (BA and BS) and at least one additional course in mathematics or computer science with relevance to the theme, chosen in consultation with an advisor (BS).

Foundational Courses

(24-26 cr for BA and BS)

Five to six courses from two or more departments or programs, with significant foundational content or relevance to theme and advanced courses, including prerequisites for advanced courses; selected from an approved list of courses in consultation with an advisor.

Advanced Courses

(12-16 cr for BA and BS)

Three courses from one or more departments or programs with content, methodology, and analysis specific to the theme and applied to the capstone experience; selected from an approved list of courses in consultation with an advisor.

Research or Practicum Experience

(for BS)

At least one additional course from ESCI 490, 491, or 492, for 1-4 cr, that involves a significant research or practical experience in consultation with an advisor.



Need More Information?

John B. Ritter, Director
Environmental Science Program
Wittenberg University
P.O. Box 720
Springfield, OH 45501

Ph: 937-327-7332 E-mail: jritter@wittenberg.edu

