

Environmental Science



WASHINGTON
& JEFFERSON
COLLEGE

The Environmental Science major is **interdisciplinary** with **emphasis in biology and chemistry** and **coursework in computing sciences, environmental policy, and mathematics**. Courses and research opportunities in the program **empower students with the ability to apply appropriate scientific, technological, and critical thinking skills** to solve modern environmental problems.

ENVS Major Requirements

Topics in Environmental Studies (EVS 100) or Introduction to Environmental Studies (EVS 101)

Evolution & Biological Diversity (BIO 111)

Cell & Molecular Biology (BIO 121)

Organismal Biology (BIO 131)

Organic Chemistry I (CHM 160)

Chemical Principles (CHM 260)

Calculus (MTH 151)

Applied Statistics for the Life Sciences (BIO/MTH 245)

Field Biology (BIO 219)

Research Methods (EVS 400)

One course each from Computing Science; Natural History & Taxonomy; Ecological Synthesis; and Environmental Economics, Policy, and Ethics

One additional elective from the disciplinary electives or from the following:

- Genetics (BIO 201)
- Microbiology (BIO 215)
- Analytical Chemistry (CHM 270)
- Topics in Regional Development and Environment (EVS 300)
- Introductory Physics (PHY 101)
- General Physics (PHY 107)

The Capstone Experience in the Environmental Studies Program requires one of three options:

- Approved 160-hr internship
- Upper-level research course in an EVS-affiliated department
- Independent Study (EVS 500/501)

Program Director

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Program Website

washjeff.edu/environmental-science

Beyond the Classroom

Students have many opportunities for research, internships, conferences, and networking beyond the classroom that give them an advantage to prepare for life after W&J.

Research & Internships

- Allegheny Land Trust, Sewickley, PA
- Blandy Experimental Farm REU, University of Virginia (Boyce, VA)
- Eurofins TestAmerica, Pittsburgh, PA
- Harshman CE Group, LLC, Washington, PA
- Hunt Valley Environmental, LLC, New Kensington, PA
- Northern Research Station, USDA Forest Service, Allegheny National Forest, PA
- Pittsburgh Parks Conservancy, Pittsburgh, PA
- Reclamation of abandoned coal mine spoils, Marianna, PA
- Savannah Wildlife Rescue Center, Savannah, GA
- Trout Unlimited, Virginia Council, Arlington, VA
- White-tailed deer herbivory study, Abernathy Field Station, Washington, PA

Potential Careers

- Environmental consultant / lawyer
- Conservation / wildlife / marine biologist
- Doctor / veterinarian / health professional
- Ecologist / botanist / entomologist
- Environmental policy analyst
- Environmental chemist / scientist
- Energy / water resources specialist

Recent Alumni Employment

- Ambassador Keeper, Lincoln Children's Zoo, Lincoln, NE
- Carbon and Energy Data Analyst | LEED Green Associate, Philadelphia International Airport, Philadelphia, PA
- Environmental Educator, Teton Science Schools, Jackson Hole, WY
- Environmental Health Inspector, Allegheny County, PA
- Environmental Scientist, Field and Technical Services, LLC, New Kensington, PA
- Resiliency Planner | LEED Green Associate, Weston & Sampson, Richmond, VA
- Veterinary Student, Iowa State University (Ames, IA)

Your Future. Founded here.

A full list of courses and descriptions can be found online in the College catalog.