MRONDENG

The Environmental Science major is interdisciplinary, with an **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.

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 this list:

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

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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
- •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

Your Future. Founded here.

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