



Environmental Science

The Environmental Science major is highly interdisciplinary, with emphasis in biology and chemistry and coursework in computing sciences, environmental policy, and mathematics. Students complete the introductory course and the Capstone Experience in Environmental Studies. 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

EVS 100 Topics in Environmental Studies or
EVS 101 Introduction to Environmental Studies
BIO 111 Evolution & Biological Diversity
BIO 121 Cell & Molecular Biology
BIO 131 Organismal Biology
CHM 160 Organic Chemistry I
CHM 260 Inorganic Chemistry
MTH 151 Calculus
BIO/MTH 245 Applied Statistics for the
Life Sciences
BIO 219 Field Biology

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

And one additional elective from the
disciplinary electives: BIO 201, BIO 215, CHM
270, EVS 300, or PHY 101/107

The Capstone Experience in Environmental
Studies requires EVS 400 Research Methods
in Environmental Studies and then one of
three options:

- approved 160-hr internship;
- upper-level research course in an
EVS-affiliated department;
- or EVS 500/501 Independent Study

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



Program Website

washjeff.edu/environmental-science

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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 and Internships

- Faculty-led and independent research on topics such as coal mine reclamation, emerald ash borer, heavy metal uptake in plants, biochar ecology, and carbon sequestration
- Mazingira Fund supports environmentally related internships
- Articulated internships, e.g., Jackson Hole Conservation Alliance, Matador Wildlife Management Area, and Southwest PA Environmental Health Project

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

Alumni Achievements

The Environmental Science Major became effective in 2018, graduates are anticipated in the near future.



**WASHINGTON
& JEFFERSON
COLLEGE**