



# Program in Environmental and Ecosystems Sciences School of the Environment

## Degree Options

Bachelor of Science in Earth and  
Environmental Sciences

## Major

Environmental and Ecosystem Sciences

## Minors

Earth Sciences  
Environmental Science  
Forestry  
Geospatial Analysis  
Natural Resources  
Wildlife Ecology

## Program Strengths

- Benefit from a program that prepares students to address the challenges of global change, environmental and resource conservation, and sustainability
- Choose from three campuses— Pullman, Vancouver, and Tri-Cities
- Acquire hands-on experience from campus ecology laboratories, field camps, internship programs, and study abroad opportunities
- Work closely with professors who are nationally recognized for:
  - Environmental science
  - Conservation biology and genetics
  - Climate change biology
  - Landscape and restoration ecology
  - Aquatic ecology and water resource management
  - Plant and wildlife ecology and management
  - Earth science
- Benefit from a flexible interdisciplinary science curriculum that prepares you for numerous careers and graduate school that inspire you to make a difference in the real world
- Academic and professional advising throughout your time here to support your optimum scholarly, professional and personal growth

## Certification Requirements

24 completed semester credits  
2.0 minimum grade point average

## Suggested Classes for Freshmen

BIOL 106: Introductory Biology: Organismal Biology  
CHEM 101: Introduction to Chemistry  
OR CHEM 105: Principles of Chemistry I  
SOE 110: The Environment, Human Life, and Sustainability  
MATH 106: College Algebra  
MATH 108: Trigonometry

## Suggested Classes for Transfer Students

SOE 275: Watersheds and Communities  
SOE 285: Science and Policy of Climate Change  
SOE 310 Modeling the Environment  
SOE 315: Water and the Earth  
SOE 300: Natural Resource Ecology  
OR BIOL 372: General Ecology  
SOE 312: Natural Resources and Society  
SOE 460: Watershed Management  
SOILS 368: Introduction to Geographic Information Systems

## Math Requirement

MATH 106: College Algebra  
MATH 108: Trigonometry  
STAT 212: Introduction to Statistical Methods  
Advanced statistics course

## School of the Environment Core Courses

Ecology, Earth Systems, Water Science, Modeling and Spatial Analysis, Society and Environmental Management, Statistics, Advanced Communications, Integrated Capstone, Experiential Learning Opportunity

## Environmental and Ecosystem Sciences Core Courses

The flexible core allows students to choose a large block of advanced professional electives in areas such as Animal Ecology, Climate Change, Biology, Ecosystem Ecology, Landscape Ecology and Management, Plant Ecology, Restoration Ecology, Spatial/Quantitative Ecology, Advanced Conservation Science, Advanced Earth Science, Environmental Management and Sustainability, Advanced Environmental Policy and Social Science, Water Resource Management and Sustainability, Physical and Biological Oceanography, Aquatic Ecosystem and Water Science, Seminars/Special Topics/Minors/Senior Thesis/Study Abroad.

**Student Clubs**

Environmental Science Club  
Geology Club  
The Wildlife Society  
Forestry Club

**Career Options**

Conservation biologist or hydrologist  
Aquatic, stream or wetland ecologist  
Water resource specialist  
Landscape or forest ecologist or manager  
Restoration ecologist  
Environmental engineer, educator, or consultant  
Range manager  
Land, watershed, natural area, park  
or wildlife refuge manager  
Resource policy advisor  
Sustainability program coordinator  
Federal Farm Program or Conservation District staff  
Numerous international options

**For more information:**

[environment.wsu.edu](http://environment.wsu.edu)  
[soe@wsu.edu](mailto:soe@wsu.edu)  
509-335-3009

**Advisor – Pullman campus**

Alecia Hoene  
Academic Advisor  
[alecia.hoene@wsu.edu](mailto:alecia.hoene@wsu.edu)  
Webster 1229  
509-335-6166

**Advisor – Vancouver campus**

Emily Earhart  
Academic Advisor  
[earhart@vancouver.wsu.edu](mailto:earhart@vancouver.wsu.edu)  
VSCI 130E  
(360) 546-9459

**Advisor – TriCities campus**

Kristen Wilson  
Academic Coordinator  
[kristenwilson@tricity.wsu.edu](mailto:kristenwilson@tricity.wsu.edu)  
West 207D  
(509) 372-7614

**Notes:**

The School of the Environment is affiliated with both the College of Arts and Sciences and the College of Agricultural, Human, and Natural Resource Sciences.