



# Environmental Science & Management, B.S.

Science-based knowledge and practical solutions to our environmental challenges are at the heart of our program. With the support of faculty and opportunities to do field research in Cal Poly Humboldt's ecologically diverse region, you'll explore the relationships between people and the natural world.

## Experience Your Learning

Students have the opportunity to apply their knowledge to real-world issues such as waste reduction, energy efficiency, and encouraging environmentally sound practices on campus and in the community.

Many lab sessions are held in nearby natural habitats, such as the Arcata Community Forest, Arcata Marsh & Wildlife Sanctuary, and Redwood National and State Parks. There are also day-long or multi-day field trips to places like the Trinity River, Crater Lake National Park, Trinity Alps Wilderness, and the Mattole River watershed.

Professors like Alison O'Dowd make sure to involve undergraduates in their own research. Her students have examined the complex interplay between dams and other diversions, seasonal flow, and aquatic invertebrate community dynamics on the Eel River.

In addition to the wide array of courses available at Cal Poly Humboldt, there are also opportunities to experience hands-on learning through study abroad and field programs. The program works in partnership with global educational institutions to support and promote sustainable initiatives.



### Did you know?

- Our department is a community where all types of environmental issues can be explored, including energy sustainability, reducing our consumption of natural resources, and protecting our public lands.
- You'll automatically be part of the Klamath Connection learning community, an exciting way to connect with other freshmen, meet the faculty, get all the classes you need for your first semester, and have an opportunity to live with students in related majors in the residence halls.



# Academics & Options

## Environmental Science & Management, B.S.

### Concentrations

#### Ecological Restoration

The Ecological Restoration concentration students are trained in the principles and practices of ecological restoration and develop skills in restoration design and monitoring, creative problem-solving and environmental decision-making.

#### Energy and Climate

The Energy and Climate concentration helps students foster an understanding of environmental problems by applying practical solutions to the interactions between climate change, energy systems, policy, and economics.

#### Environmental Education and Interpretation

Environmental Education & Interpretation students learn about the art and science of communication to inspire understanding and appreciation of the natural and cultural world.

#### Environmental Planning and Policy

The Environmental Planning and Policy concentration trains policy-makers and planners to find ways for people to live in harmony with the natural environment, satisfying our needs for space and resources while maintaining the quality of the environment.

#### Geospatial Science

The Geospatial Science concentration uses spatial analysis and geographic information systems to help environmental scientists and resource managers to better understand and manage challenges related to socio-environmental issues such as food, energy, public health, endangered species and natural resources.

### Minors

- Ecological Restoration
- Environmental and Natural Resources Planning
- Environmental Education and Interpretation
- Environmental Policy
- Geospatial Analysis
- Natural Resources
- Natural Resources Recreation
- Sustainability

## Careers

With a strong foundation in science, analysis, and communications, you'll be highly prepared for your future.

- Biological Technician
- Climate Policy Analyst
- Ecologist
- Environmental Educator
- Environmental Planner
- Environmental Scientist
- GIS Administrator
- Land Management Specialist
- Park Ranger
- Restoration Ecologist



**The Environmental Science & Management program is very well respected in the realm of public lands management, and there are many Humboldt grads working in public lands management. What makes the program great is the variety of offerings and directions your degree program can go."**

**Daniel White** ('14, Environmental Science & Management), oversees all mining projects on BLM lands in northeast Washington