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# Natural Resources, M.S.

From determining strategies to protect golden eagles from power lines, to understanding how migratory timing affects phenotype expression in salmon, to advising government agencies on management of menhaden, graduate Natural Resources students investigate a diverse spectrum of science. Our graduate programs provide the knowledge and experience necessary to address scientific problems and to carry out scientific investigations including design, implementation, and evaluation of research in specific areas of study.

## Experience Your Learning

Hands-on learning is at the heart of graduate studies at Cal Poly Humboldt. And we have the facilities to make it happen.

Aboard Humboldt's 90-foot ocean going research and teaching vessel, students can collect and observe marine plants and animals in their natural environment. The Coral Sea has two labs inside and the deck space to give students the room to work with box cores, dredges, nets and other large oceanographic equipment.

A globally recognized leader in clean and renewable energy technology research, the Schatz Energy Research Center's work involves technology demonstration, project development, energy systems analysis, and education and training. It also performs feasibility studies, resource assessments, and energy planning studies.

The Dennis K. Walker Greenhouse is one of the largest teaching collections of living plants in California, with 11,500 square feet of instructional display space and supporting facilities, and more than 1,000 plant species in 187 families.

### Did you know?

- The Humboldt region has some of the most diverse ecosystems found anywhere on the planet.
- The campus fish hatchery has a recirculating freshwater system with incubators, troughs, fiberglass circular tanks, concrete circular tanks, and raceways.
- Humboldt's fire lab is one of the best-equipped university fire research facilities in the country.
- The Marine Lab includes a system that recirculates seawater, a remotely operated underwater vehicle, a wet laboratory for rearing marine invertebrates and fishes, and a culture room.



# Academics & Options

## Natural Resources, M.S.

### Environmental Science & Management

Environmental Science & Management graduate studies are oriented toward environmental analyses and land use planning, ecological restoration, human dimensions of natural resources, and geospatial science.

### Fisheries

The Fisheries program is designed primarily to produce graduates who can assess, manage, and conserve fish habitats, populations, and commercial and recreational fisheries. The program is broad enough to allow students to prepare themselves for work in additional areas such as water pollution ecology, fish population dynamics, and fish culture.

### Forests, Fire, Watershed & Range

Graduate students in Forests, Fire, Watershed & Range are focused on a wide variety of topics including forest ecology, tree physiology, conservation biology, forest growth, and administration of forest land for ecosystem management. Fire focuses on wildland fire processes and management. Watershed focuses on watershed processes and the interactions between geophysical and biological factors expressed in bounded drainages. The interplay between watershed processes and management of other natural resources is integral. Range focuses on the management of rangeland ecosystems.

### Wildlife

Wildlife emphasizes research on wildlife species, behavior, and habitat requirements within the complex ecological interactions that govern the outcome of various land use practices. Wildlife managers should be able to maintain sustained yields of game animals, to minimize wildlife depredation, and to reverse conditions threatening species with extinction.

## Careers

With a master's degree in Natural Resources (and the research, analysis, and critical thinking skills that come with it) there's so much you can do!

- GIS Analyst
- Restoration Ecologist
- Environmental Planner
- Lead Hydrologist
- Energy Consultant
- Non-Profit Director
- Environmental Scientist
- Ecologist
- Climate Policy Analyst
- Conservation Biologist



**Cal Poly Humboldt is surrounded by the most diverse natural settings in the country, and the NR faculty has the scientific expertise to match, so you can truly study anything that interests you."**

**Ivan Medel** ('17, Forests Fire Watershed Range),  
Research Scientist for Integral Ecology, a non-profit research institute.