



Natural Resource Ecology & Management

Highlights

- One-on-one student-faculty adviser/mentor for students
- Field-oriented hands-on courses
- Opportunities for undergraduate research projects
- Excellent job opportunities in public and private organizations
- Interaction with students and faculty in the full range of natural resource fields of study

Unique Classes

- Seniors in their final capstone course tackle a real resource management problem for a land or resource agency, working professional or private landowner. This prepares graduates for their first professional assignment.
- A study abroad course to Ecuador and the Galapagos Islands is offered and unique ecosystems from the Andes to the Amazon jungle are studied.

NREM Student Organizations

- American Fisheries Society
- Society of American Foresters
- Society for Range Management
- The Wildlife Society
- Pre-Veterinary Science Club



The Natural Resource Ecology and Management study options provide an integrated education in renewable natural resources management, conservation, and utilization, as well as a valuable perspective for understanding and solving critical environmental problems on local, regional and global scales.

Within natural resource ecology and management, you have the option to select a predefined emphasis area or work with your faculty adviser to customize your plan of study. These options include:

Fire Ecology & Management

Prepares you to understand and use prescribed fires to manage natural landscapes, and to understand the ecological impacts of fires on plant and animal communities.

Fisheries & Aquatic Ecology

Designed to give you a complete understanding of the techniques, methodologies and management issues in fisheries science, aquaculture, and fisheries management.

Forest Ecology & Management

Emphasizes the biological, socio-political and managerial skills needed to ensure the sustainability of forest ecosystems and the many renewable resources, goods and services upon which society depends.

Natural History & Conservation

Embraces observation of the natural world as the backbone for conservation and stewardship of natural resources.

Rangeland Ecology & Management

Focuses on private and public grasslands, wildlands, and forests providing knowledge of grazing, fire, and ecological sustainability.

Wildlife Biology & Preveterinary Science

Preparation for post-graduate studies in veterinary medicine with a focus on wild and/or exotic species. Students will complete courses required for application and possible admission to programs in veterinary medicine, to pursue graduate studies in wildlife biology, or to work with the care of wild, exotic, or threatened species.

Wildlife Ecology & Management

Provides the biological and ecological basis for management of wildlife populations and habitats, with emphasis on current management issues.





Why Natural Resource Ecology and Management?

The management of all natural resources becomes increasingly important as the demands on natural and managed habitats increase. The quality of our lives is directly connected to the health of our ecosystems. NREM programs are designed to give our graduates the tools and experiences necessary to understand and apply ecological sciences and principles to benefit mankind and the environment. These ecological principles apply to the wise management of both public and private lands as well as on intensively managed or wilderness landscapes. The professional positions our graduates pursue upon graduation are as varied as the natural resources they wish to protect and enhance.

NREM graduates are working all across the USA in a diversity of natural resource settings that include wildlife refuges, rangelands, conservation areas, forests, parks, reservoirs and more. They are employed by a variety of federal, state and local agencies, corporations, municipalities, non-profit organizations, and private landowners.

Placement rates have been very high for graduates of several NREM options including forestry, fire, and rangeland ecology. Some NREM graduates choose to pursue graduate studies to enhance their research skills in more specific areas of interest. Students in all NREM options are either encouraged or required to have internships or professional summer job experience before graduation. This provides students real-world experiences, enhances their educational experience, and may well lead to permanent employment following graduation.

Scholarship Dollars: The Department of Natural Resource Ecology and Management awards more than **\$43,000** in scholarships to students in the department. Last year, CASNR awarded an additional **\$460,000** to students within the college.

Alumni Spotlight

R.C. Lopez
B.S., *Natural Resource Ecology & Management*, May 2011
Rangeland Management Specialist with the Bureau of Land Management, Pinedale, Wyoming

Lopez was active in the Range Club and Society for Range Management, the discipline's professional organization. While at OSU, he attended the National SRM meeting which led to an internship with the Bureau of Land Management. Following graduation, and as a result of his internship, he was hired as a BLM Rangeland Specialist.

Lopez's duties include monitoring BLM grazing allotments, site evaluations for oil well pads, helicopter assessment of Greater Sage-grouse winter areas, and improving aspen regeneration using prescribed fire.



CASNR Fast Facts

>>> Faculty Advising <<<

40+
Student Organizations

\$1.4
Million in
Scholarships
each year

13:1
Student to Faculty Ratio

45 States
Represented

4 out of 15
OSU Outstanding Seniors

Expanding Minds, Inspiring Purpose

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