

# FOREST, RANGELAND, AND FIRE SCIENCES (M.S.)

Candidates must fulfill the requirements of the College of Graduate Studies and of the College of Natural Resources. Graduate programs are offered in many forest and rangeland specialization areas including the following:

- Ecology and Biogeosciences of Forest and Rangeland Ecosystems: ecosystem processes/modeling, biometrics, biogeochemistry, hydrology and ec hydrology, remote sensing and geospatial ecology, landscape ecology, community ecology, population ecology, ecosystem ecology, disturbance ecology, paleoecology, restoration ecology, ecophysiology, global environmental change, conservation biology/genetics, and molecular plant systematic;
- Forest Sciences and Management: forest mensuration, forest regeneration, forest ecosystem management, tree physiology, forest pathology, forest policy, forest operations, silviculture, forest ecology, and forest genetics;
- Fire Sciences and Management: fire effects and recovery, fire behavior, fuels management, biophysical controls of fire and fire regimes, air quality and smoke management, fire history, and fire ecology; and
- Rangeland Sciences and Management: grazing behavior and management, invasive plant management, livestock-wildlife relations, rangeland and habitat management, rangeland riparian management, and rangeland ecology.

Admission to the graduate program is based on evidence of ability to complete graduate-level work as discerned from undergraduate transcripts, the applicant's statement of career objectives, and letters of recommendation; the compatibility of the student's educational and career objectives with faculty expertise and departmental objectives; and availability of graduate faculty to act as major advisor for an applicant. An undergraduate degree related to our programs is also recommended, but an applicant may be accepted with the understanding that certain course deficiencies may be required by the student's advisory committee.

Students can transfer up to 12 approved credits taken as a non-degree seeking student into a M.S. or Ph.D. program in the College of Natural Resources with permission of the departmental graduate committee. Students who are considering transferring non-degree credits into a CNR graduate program should request early advising from the appropriate department.

## Master of Science. Major in Natural Resources.

The M.S. degree is available with a major in natural resources. Thesis and non-thesis options are offered.

1. Thesis option: General M.S. requirements apply. However, the thesis may be comprised of a manuscript(s) in a form acceptable for publication in a refereed journal, while otherwise fulfilling format requirements of the Graduate College.
2. Non-thesis option: General M.S. requirements apply. A written and/or oral examination that covers graduate coursework must be taken during the final semester in residence. At least one professional

paper is required and will be evaluated by the candidate's supervisory committee.

Please see the College of Natural Resources graduate handbook (<https://www.uidaho.edu/-/media/UIDaho-Responsive/Files/cnr/grad-programs/cnr-grad-student-and-faculty-advisor-handbook.pdf?la=en&hash=0278D84660B4A60E266E591BB5F18A7DBA2A9E1F>) for details and program requirements on earning the master's degree in forest, rangeland, and fire sciences.

Graduates will be able to:

1. Conduct innovative and high-quality research in natural resources by:
  - a. Demonstrating fundamental disciplinary knowledge, principles, and a mastery of the scientific method;
  - b. Identifying knowledge gaps and/or management or social challenges, designing and proposing a research project, analyzing data, and interpreting results.
2. Communicate effectively in written and oral formats.
3. Exhibit practices and behaviors conducive to developing a career in natural resources science and/or management.