

Interdisciplinary Graduate Education

The online M.S. program in Land Resources and Environmental Sciences is designed to provide outstanding graduate training opportunities across a breadth of disciplinary interests. Programs are specifically adapted to each student and often address processes at multiple scales through well-integrated, multi-disciplinary efforts. The flexible and interdisciplinary nature of this program allows you to select courses to fit your professional goals and interests and to support your career and advancement goals.

Students choose from a number of electives and complete a professional paper, which may cover topics such as:

- landscape and ecosystem ecology
- hydrology
- watershed hydrology
- integrated management of invasive species
- soil nutrient management
- biodiversity modeling
- land reclamation
- restoration ecology
- fluvial systems ecology and restoration
- riparian ecology
- microbial ecology of natural systems
- chemical fate and transport
- water quality
- crop diversification
- precision agriculture
- environmental risk assessment
- remote sensing and GIS applications
- climate variability

and other related topics.



For information about admission requirements, deadlines, tuition and financial aid, contact:

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Program Manager

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For information about course offerings, advising and professional paper development, contact:

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Earn an online master's degree in
**Land Resources and
Environmental Sciences**



Online master's degree program:
<http://eu.montana.edu/online/degrees/lres>

Department of Land Resources and
Environmental Sciences:
<http://landresources.montana.edu>

**A multi-disciplinary degree designed for
students interested in understanding
and managing landscapes at multiple scales**



Land Resources & Environmental Sciences

ONLINE MASTER'S PROGRAM

This 30-credit program is designed to be completed in two years. All students complete a minimum of 30 credits, including a required 3-credit professional paper. Depending on each student's professional interests, all coursework can be taken online, or students can choose from courses offered on the MSU-Bozeman campus. Each student is assigned an advisor who will help create a personalized program of study.

Curriculum

All students complete 27 credits of electives, and a 3-credit professional paper.

| Course | Semester | Credits | Location |
|---|-----------------------|---------|-----------------|
| The Ecology of Plants and Plant Communities | Fall | 3 | Online |
| Environmental Risk Assessment | Fall (alt yrs, odd) | 3 | Online |
| Herbicide Physiology | Fall (alt yrs, even) | 3 | Online |
| Holistic Thought and Management | Spring | 3 | Online |
| Integrated Pest Management | Fall (alt yrs, odd) | 3 | Online |
| Remote Sensing Applications in Environmental Science | Fall | 3 | Online |
| Soil Ecosystems and Processes | Fall | 3 | Online |
| Watershed Hydrology | Fall | 3 | Online |
| Environmental Biophysics | Spring | 3 | Online |
| Insect Ecology | Spring (alt yrs, odd) | 3 | Online |
| Landscape and Ecosystem Ecology | Spring | 3 | Online |
| Quantitative Methods in Environmental Science | Spring | 3 | Online |
| Water Quality | Spring | 3 | Online |
| Biodiversity Survey and Modeling Methods | Summer/Fall | 3 | Online & Campus |
| Ecology of Invasive Plants in the Greater Yellowstone Ecosystem | Summer (3 weeks) | 3 | Online & Campus |
| Independent Study | Fall, Spring, Summer | 3 | Online |
| Internship | Fall, Spring, Summer | 3 | Online |
| Professional Paper | Fall, Spring, Summer | 3 | Online |

About LRES

MSU's Department of Land Resources and Environmental Sciences generates knowledge about local and global environments to meet the needs of students, agricultural producers, land owners and managers, the general scientific community, and the citizens of Montana.

The multi-disciplinary department specializes in soils, microorganisms, insects, plants, climate, and water to address issues affecting cropland, rangeland, forests, reclaimed land, extreme environments, and protected natural areas.

Through research, outreach, and teaching, LRES strives to integrate scientifically sound information across spatial and temporal scales to enhance productivity of managed lands, facilitate knowledge-based adoption of sustainable practices, and produce broadly educated students prepared for careers in the environmental sciences.

About Montana State University

Whether on-campus or online, Montana State University's degree programs are known for interdisciplinary programming that encourages students to explore solutions to critical issues; for faculty who excel in both teaching and research; and for the university's commitment to every student's success.

Montana State University is accredited by the Northwest Commission on Colleges and Universities (NWCCU) and is one of only 108 institutions— out of 4,600—designated as “very high research activity” by the Carnegie Foundation for the Advancement of teaching. This means that MSU is among the top two percent of research institutions nationwide, which translates into significant opportunities.

