M.S. in Land Resources and Environmental Sciences Online

Overview
The online M.S. program in Land Resources and Environmental Sciences is designed to provide outstanding graduate training opportunities across a substantial breadth of disciplinary interests. Programs are specifically adapted to each graduate student and often address processes at multiple scales through well-integrated, multi-disciplinary efforts. Student projects are directed toward improving understanding of principles and processes important to land resources and environmental sciences, with opportunities for direct ties to management.

Understanding is developed through targeted advanced coursework tailored to the student. Professional papers may involve, but are not limited to, topics such as watershed hydrology, integrated management of invasive plant species, soil nutrient management, bioremediation, 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, and climate variability.

Requirements
A minimum of 30 credits:

- 27 credits course work from 400/500 level courses from the electives list
- 3 credits professional paper requirement

Prerequisites
- Bachelor's degree in a related field, or a strong science background
- Undergraduate GPA of 3.0 or better
- Official GRE combined score of greater than 300.
- Show significant promise for success in a graduate program
- TOEFL (Test of English as a Foreign Language) score of 550 (paper-based test), 231 (computer-based test), and 80 (internet-based test)--required only for international students whose native language is not English

Meeting the minimum department standards does not ensure admission to the program. The minimum GPA and GRE scores are not absolute thresholds. Admission to Montana State University graduate programs is based on a number of factors, including prior academic and professional experience and the personal statement.

Curriculum
The flexible and interdisciplinary nature of this program allows you to select online courses to fit your professional goals and interests.

Elective Courses (27 credits will be from this list of courses)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGSC 401</td>
<td>Integrated Pest Management</td>
<td>3</td>
</tr>
<tr>
<td>ENTO 510</td>
<td>Insect Ecology</td>
<td>3</td>
</tr>
<tr>
<td>LRES 507</td>
<td>Environmental Risk Assessment</td>
<td>3</td>
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<tr>
<td>LRES 510</td>
<td>Biodiversity Survey and Monitoring Methods</td>
<td>3</td>
</tr>
<tr>
<td>LRES 515</td>
<td>Microbial Ecology</td>
<td>3</td>
</tr>
<tr>
<td>LRES 521</td>
<td>Holistic Thought &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>LRES 530</td>
<td>Natural Resource Law</td>
<td>3</td>
</tr>
<tr>
<td>LRES 531</td>
<td>Applied Watershed Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>LRES 532</td>
<td>Soil Ecosystems and Processes</td>
<td>3</td>
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<tr>
<td>LRES 533</td>
<td>Wetland Ecology &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>LRES 534</td>
<td>Environmental Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>LRES 536</td>
<td>Ecology of Invasive Plants II</td>
<td>1</td>
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<tr>
<td>LRES 539</td>
<td>Ecological Restoration and Management</td>
<td>3</td>
</tr>
<tr>
<td>LRES 540</td>
<td>Ecology Plants &amp; Community</td>
<td>3</td>
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<tr>
<td>LRES 544</td>
<td>Water Quality</td>
<td>3</td>
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<tr>
<td>LRES 562</td>
<td>Land Rehab Field Problem</td>
<td>2</td>
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<tr>
<td>LRES 565</td>
<td>Environmental Biophysics</td>
<td>3</td>
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<tr>
<td>LRES 566</td>
<td>Chemical Ecology</td>
<td>3</td>
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<tr>
<td>LRES 569</td>
<td>Ecol of Invasive Plants in GYE</td>
<td>2</td>
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<tr>
<td>LRES 571</td>
<td>Landscape &amp; Ecosys Ecology</td>
<td>3</td>
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<tr>
<td>LRES 573</td>
<td>Remote Sensing Env Sci</td>
<td>3</td>
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<tr>
<td>LRES 592</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>LRES 598</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>PSPP 546</td>
<td>Herbicide Physiology</td>
<td>3</td>
</tr>
<tr>
<td>MB 527</td>
<td>Toxicology</td>
<td>3</td>
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***LRES 592 and LRES 598 may not be used as a course on students program of study.

Required Course - all students must take the 3 credit professional paper course at the end of your program of study

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<tbody>
<tr>
<td>LRES 575</td>
<td>Prof Paper &amp; Project</td>
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For More Information
- Scott Powell, Assistant Professor and Program Coordinator, at spowell@montana.edu or (406) 994-5017
- Marni Rolston, Program Manager, at mrolston@montana.edu (lisa.brown@montana.edu) or (406) 994-2029
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.