LRES - Land Resources & Env Sci

LRES 536. Ecology of Invasive Plants II. 1 Credit. (1 Lec) Su
PREREQUISITE: LRES 569. Through this course, students will learn to organize
plant population data and analyze it to determine population temporal and spatial
dynamics. In addition they will learn how to apply the conclusions drawn from the
analysis to invasive species management decisions.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 10986 | 001 | Non-standard | - | ONLINEWEB-Session | JUN-19 - JUL-19

LRES 539. Ecological Restoration and Management. 3 Credits. (2 Lec, 1 Lab) Su
PREREQUISITES: This course is restricted to LRES-online students only.
General Biology, General Ecology. Insights into ecological processes require an
understanding of the unique chemical environment that wetlands represent. You
must be familiar with basic high school chemistry (e.g., EtOH/H2O) to be able to
succeed in this course. Similarly, you must be familiar with basic, high-school-level
quantitative approaches in environmental sciences. This class combines readings,
field measurements and site visits to examine scientific, legal and management
decisions that define the practice of restoration. Fundamentals are based on
foundational science and practical elements that affect the implementation of
restoration projects.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 11390 | 001 | Intercession | MTWRF AJMH233 | 8:00am - 5:00pm | JUL-19

LRES 557. Thermal Biology in YNP. 2 Credits. (1 Lec, 1 Lab) Su
2 cr. LEC 1 RCT/DIS 1 PREREQUISITE: B.S. Science/Science Education;
Enrollment limited to M.S. Science Education Graduate Program A survey of
the ecology of important organisms common in thermal habitats of Yellowstone
National Park, including a review of different life forms (prokaryotes and
eukaryotes) and their modes of metabolism, and the physical, and chemical habitats
that define their environment. Course includes lecture, laboratory, and field
components. Students will be asked to design curricula for K-12 audiences.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 10903 | 001 | Non-standard | | MTWRF GAINES143 | 8:00am - 5:00pm | JUL-19

LRES 562. Land Rehab Field Problem. 2 Credits. (2 Lab) Su
alternate even years. PREREQUISITE: ENSC 460, ENSC 461. Extended field trip
to numerous drastically disturbed sites across the Northern Plains. On-site review
of land rehabilitation problems, solutions, and methodologies. Participation by
industry, regulatory agency staff, and rehabilitation professionals will occur at most
sites.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 11376 | 001 | Non-standard | | - | MAY-19

LRES 569. Ecol of Invasive Plants in GYE. 2 Credits. (1 Lec, 1 Lab) Su
2 cr. LEC 1 LAB 1 Current theories on what makes species invasive and
what ecosystem conditions invite or resist non-indigenous plant species will
be considered. Direct involvement in field research associated with testing
methodology for monitoring the invasive potential of several exotic species in the
otherwise pristine mountain environments.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 10904 | 001 | Non-standard | MTWRF ABB238 | 8:00am - 12:00pm | JUL-19

LRES 582. Streamside Science for Teachers. 3 Credits. (3 Lec) Su
PREREQUISITES: Graduate standing; ability to work with Microsoft Excel
spreadsheets; practicing educator. The primary goal of this course is to increase the
water resource knowledge of students through hands-on, field-based curriculum.
To accomplish this, students will be asked to adopt a local stream and perform lab
assignments “in the field” to better understand hands-on water quality monitoring
techniques. The course will improve the teaching skills of secondary science
teachers utilizing distant delivery technologies. By completing this course,
secondary science teachers will have a better understanding and hands-on working
knowledge of the characterization and quantification of water quality as it relates to
secondary school science curriculum and environmental issues on a global scale.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 11167 | 001 | Intercession | ONLINEWEB-Session | JUL-19

LRES 586. Lake Ecology for Teachers. 2 Credits. (1 Lec, 1 Lab) Su
This course will provide a comprehensive understanding of the biotic and abiotic
factors that influence lake dynamics. It will address the unique ecosystem of
Yellowstone Lake with an emphasis on the aquatic invertebrate life. This will be
accomplished through lecture, field investigation, and laboratory analysis. Students
will synthesize and be able to apply learned skills and knowledge in their classroom
(grades 5-12). The course will take place in Yellowstone National Park and on the
MSU campus. Montana State University educators, National Park Service resource
managers, and other agency professionals will join the class to provide a multi-
disciplinary perspective.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 11195 | 001 | Non-standard | MTWRF ABB238 | 8:00am - 5:00pm | JUL-19

LRES 591. Special Topics. 1-4 Credits. (1 Rct; 12 cr max) On Demand
1 - 4 cr. Maximum 12 cr. PREREQUISITE: Upper division courses and others
as determined for each offering. Courses not required in any curriculum for
which there is a particular one-time need or given on a trial basis to determine
acceptability and demand before requesting a regular course number.

Term | CRN | Section | Session/Dates | Days | Location | Time
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2019 Summer | 11058 | 002 | Non-standard | | | AUG-19
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.