Lecture Time: Monday, Wednesday 1:00-1:50 PM
KRC 105
Lab Time: Monday, 2:00-4:00,
KRC 105 & FA 233 (Computer lab)

Website: [http://www.ag.unr.edu/leger/Courses/NRES_341.html](http://www.ag.unr.edu/leger/Courses/NRES_341.html)

Course description

This course addresses the conservation, management and multiple use of range resources, with a focus on Great Basin ecosystems.

Course objectives:

To provide students with background information necessary to think critically about range management in the 21st century. Range management involves the synthesis and application of principles from many fields. Reflecting this, we will discuss a wide range of topics, from the history of settlement and ranching in the west to plant biology, ecological principles, cattle production and multiple use of rangelands, among other topics listed below.

Instructor: Dr. Elizabeth Leger
Office: FA Room 121
Tel: 784-7582
Email: eleger@cabnr.unr.edu
Office Hours: Wed. after class, or by appointment

Series of Guest Lectures: Dr. Ben Bruce
Office: FA Room 107
Tel: 784-1624
Email: bbruce@unr.nevada.edu

Requirements:


2. Connection to the internet. Lectures, course calendar, study guides, etc. will be available online at [www.ag.unr.edu/leger/Courses/NRES%20341.html](http://www.ag.unr.edu/leger/Courses/NRES%20341.html)
Topics

We will cover the following subjects during this semester. A course schedule and reading assignments will be posted online, and will be updated frequently to reflect changes in lecture and lab scheduling.

- Introduction to Range Management
- Range Management History
- Types of Rangelands
- Physical Characteristics of Rangelands
- Paleo-History of Herbivory
- Hydrology and Erosion
- Plant Morphology and Physiology
- Plant Ecology

- Stocking Rates
- Grazing Systems
- Improving Livestock Distribution
- Range Animal Nutrition
- Range Vegetation: Invasive species
- Range Vegetation: Monitoring
- Wildlife Interactions
- Multiple Use

Labs (subject to change)

CABNR career fair
Historic range review
“Between Grass and Sky” exhibit at NMA
Conversions, graphing in Excel
GIS lab
Historic cemetery field trip

Beef cow economics
Stocking rates
Field soil lab
Grass identification
Vegetation monitoring
Main Station Farm animal lab
Final review (PowerPoints)

Assessment and Grading

1. Class participation 5%
2. Weekly quizzes 15%
3. Midterm, 3/12/2008 30%
4. Final Exam, 5/12/2008 30%
5. Lab assignments 20%

Grading Scale

1. A = 94-100
2. A- = 90-93%
3. B+ = 87-89%
4. B = 84-86%
5. B- = 80-83%
6. C+ = 77-79%
7. C = 74-76%
8. C- = 70-73%
9. D = 60-69%
10. F = below 60%

1. There will be a short, timed, quiz once a week, either on Monday or Wednesday. These quizzes will be open book and open note. Quizzes will emphasize interpreting information, formulating hypotheses, and synthesizing concepts from lecture. There will be no make-up quizzes. I will drop the three lowest quiz scores. Quizzes will cover all course material covered to-date.

2. Midterm is currently scheduled for 3/11/2009, and will address topics in Block 1. The midterm will be closed book/closed note. Questions will be about 80% from material covered in the lecture, 20% of material from the book.

3. Final exam is scheduled for 5/11/09 from 12:00-2:00. The final exam will be cumulative, but will emphasize material from Block 2. The final will be closed book/closed note.

4. Some labs will have assignments that you will turn in, and some labs will be graded on attendance and participation. All labs will be graded with equal weight.

I follow UNR’s policy on academic standards, http://www.unr.edu/stsv/acdispol.html