

RWM 3332 - Range Improvements
Lecture: MW 10-10:50; Lab: Monday 1:00-2:50, 3:00-4:50, MIR Center

Instructor: Corey Owens, VIN 223, (325)486-6757; Corey.Owens@angelo.edu

Office Hours:

- Monday/Wednesday 8-10; Tuesday/Thursday 8-9; Tuesday 1-3

Learning Outcomes:

1. Students should be familiar with the biological and economical considerations of range improvements, the different methods of range improvements, and an integrated approach to range management.
2. Students should be able to evaluate rangelands and determine when invasive plant removal is necessary and beneficial.
3. Students should be able to calculate costs/gains of range improvements to determine economic feasibility of the proposed improvements.

*Learning outcomes will be assessed through questions on section/lab quizzes tied to outcomes as well as the range improvement project.

Notes: Range Improvements Lecture Notes (available in the university bookstore)

Lab: In the first half of the semester, laboratory meetings will be used to introduce students to the methods of range improvements. Labs will be designed so that students will have experienced the application of each technique.

For the second half of the semester, lab will consist of working in groups on developing range improvement plans. Each group will be assigned an area of rangeland and will be expected to develop a plan of improvement that is both economically and environmentally feasible. Each group will give a formal presentation to the class at the end of the semester, and each student will be expected to write an individual plan.

Readings: Readings will be assigned throughout the semester. The following class period, a quiz and/or discussion questions will be completed. Read each paper carefully to be prepared for these assignments.

Attendance: Each student has the opportunity to miss lecture or lab a total of 3 times. Official school trips do not count toward your absences. If you have a legitimate reason to miss a class, please let me know beforehand and we will make arrangements to complete assignments/exams before the absence. Missed assignments or exams not taken or turned in on time can only be made up within ONE week of the absence for a maximum of 80%. If you are sick and miss an exam, I will need a doctor's note to allow you to make up the exam for full credit. If you miss more than 3 class/lab meetings, you will lose 5 points from your final grade. For each absence thereafter, you will lose 1 point/absence.

Religious Holy Day: A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.

Grades:

- Section Quizzes (4) worth 50 points each
- Final exam worth 100 points
- Lab Quizzes/Pop Quizzes worth 100 points total
- Range Improvement Plan worth 100 points
- Reading Quizzes worth 50 points total

Academic Honesty: If you are caught cheating on any assignment or exam in this class you will receive a grade of zero. The College of Science and Engineering adheres to the university's [Statement of Academic Integrity](#).

Tentative Schedule of Materials and Exams

Date	Subject
Jan 17	
Jan 19	Introduction, Syllabus, Overview
Jan 24	Review Range Principles
Jan 26-Feb 2	Range Improvements, Definitions, Introduction
Feb 7	Quiz 1
Feb 9-14	Range Improvement Techniques
Feb 16-23	Plant Assemblages
Feb 28	Quiz 2
Mar 2-9	Ecosystems, Biodiversity, and Brush Control
Mar 14-18	Spring Break
Mar 21-23	Ecosystems, Biodiversity, and Brush Control
Mar 28	Quiz 3
Mar 30-Apr 13	Economics of Range Improvements
Apr 18	Quiz 4
Apr 20-27	Causes of Woody Plant Invasion
May 2-4	Individual Brush Problems and Treatments
May 9	Final Exam

Lab Schedule

Week of	Activity
Jan 17	No Lab
Jan 24	Common Range Plants
Jan 31	I.D. Quiz of Common Range Plants
Feb 7	Herbicides for Range Use
Feb 14	Herbicides for Range Use
Feb 21	Prescribed Fire
Feb 28	Mechanical Control; Brush Control for Wildlife
Mar 7	Range Inventory; Range Improvement Project
Mar 14	Spring Break
Mar 21-Apr 25	Range Improvement Project
May 2	Group Presentations (During lab)

Accommodations for Students with Disabilities: ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the [Student Disability Services website](#). The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford, Director of Student Disability Services
Office of Student Affairs
325-942-2047, dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Title IX: The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU's Office of Title IX Compliance and the Title IX Coordinator at:

Michelle Miller, J.D.

Special Assistant to the President and Title IX Coordinator

Mayer Administration Building, Room 210

325-942-2022

michelle.boone@angelo.edu

You may also [file a report online](#) 24/7.

If you are wishing to speak to someone about an incident in confidence, you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information, visit the [Title IX website](#)

COVID-19: Please refer to ASU's [COVID-19 \(Coronavirus\) Updates](#)ⁱ web page for current information about campus guidelines and safety standards.
