

Grazing Management

RWM 6339

Lecture: TT 8-9:15 VIN 250

INSTRUCTOR Cody B. Scott, VIN 222, 325-656-1851. <mailto:cody.scott@angelo.edu>

Office Hours See attached schedule. Anytime my office door is open.

Course Objective

The course is designed to provide a synthesis of literature and managerial principles pertaining to management of grazing animals on rangelands. Our objective is not to fill a notebook with facts and figures, but to understand the knowledge base of grazing management and to identify any weaknesses that will affect successful grazing management. In the end, I hope that we will leave this class with new ideas and approaches to managing grazing situations.

We will begin the semester by discussing the methods of science and the type of information developed from each method. I believe that it is critical the graduate students understand the methods of science so that they are able to identify those studies that provide new understanding regarding the mechanisms of nature and those that simply describe patterns in nature.

Afterwards we will review the history grazing management and the current paradigms in place. This will be followed by an in-depth discussion of how plants respond to herbivory. This is particularly important because ultimately range and animal production is dependent on how preferred and non-preferred forages respond to animal disturbance. As a related issue, we will briefly discuss rangeland hydrology and how livestock grazing impacts erosion, infiltration and water pollution.

Finally, we will discuss diet and habitat selection. I believe that the future of grazing management involves manipulating animal feeding patterns rather than expensive efforts to manipulate rangeland components.

Student Learning Outcomes

By the end of the semester, graduate students will possess the knowledge necessary to (1) improve forage production/composition using livestock, (2) protect and maintain rangelands to optimize plant production and water yield, and (3) improve livestock production through manipulation of livestock behavior and rangeland resources.

Text and Readings

There is not a required text for this class. Several required readings will be assigned throughout the course. Students will be expected to read assigned readings prior to class meeting and prepare a brief summary to aid in class discussions. In class, we will develop discussions to address specific questions posed by the instructor. Participating in class discussions is a *requirement* for students to receive a respectable grade. To encourage students to read each article, a pop quiz will follow most of the readings. The pop quizzes are not necessarily to punish you, but to aid you in developing critical reading skills.

Notes and Lectures

As we begin each new section of the course, I will post the lecture notes on Blackboard. Each student should download the notes, and bring a printed copy to lectures. Notes are provided because I believe the most efficient way for students to learn is through participation. It is very difficult to participate in class discussions or to raise questions if you are writing down every-other-statement made by the instructor. By providing notes, each student will be free to listen, think, and add to discussions in class. I believe this is especially crucial in classes dealing with applied sciences like Range and Animal Science because for several of the issues we will discuss there is no right or wrong answer.

Course Delivery

Please note that even through some of the essential information and assignments will be available on line, **this is not an on-line course**. All students are expected to attend lectures on both Tuesday and Thursday morning. Weekly discussions, lectures, and ancillary information will be covered in lecture to supplement the information on line.

Grading

<i>Grading</i>	<i>Points</i>	<i>Percent of Grade</i>
Quiz #1	100	25%
Quiz #2	100	25%
Quiz #3	100	25%
Pop Quizzes	100	25%

Your grade at the end of the semester will reflect the total number of points that you have acquired. The course is designed so that you can earn a respectable grade if you participate in class and turn in all of your quizzes on time. If you have a problem turning in your assignments or in attending class, please let me know. If you have a valid excuse, then I will allow you to turn in your assignments late. Otherwise, there will be a severe loss of points on your quiz grade.

Because I believe that participation is crucial for effective learning, the effort you place on discussing issues in class could improve your grade. I reserve the right to increase your letter grade, but only if your efforts suggest to me that you have completely read all assignments and you capitalized on opportunities to ask questions and discuss key points.

Schedule

Below, I have listed a tentative schedule of topics and quizzes. Keep in mind that the schedule may vary depending on the time it takes to cover each topic. I will announce in class when articles must be read and the date of the next exam.

Tentative Schedule for RWM 6339

Grazing Management

Week	Subject	Quiz
1	Introduction, Planning and Science	
2	Planning and Science	
3	Grazing Management, Past and Present	
4	Grazing Management, Past and Present	
5	Managing Animals on Rangelands	Quiz #1
6	Managing Animals on Rangelands	
7	Plant Responses to Herbivory	
8	Plant Responses to Herbivory	
9	Plant Responses to Herbivory	
10	Hydrology and Grazing	
11	Hydrology, Grazing, and Brush Control	
12	Nutrition and Behavior	Quiz #2
13	Nutrition and Behavior	
14	Diet and Habitat Selection	
15	Diet and Habitat Selection	
16	Diet and Habitat Selection	
17	Quiz #3 (Final) due @ 8 am on May 10, 2022	Quiz #3

Faculty Member: Cody B. Scott

Semester: Spring

Year: 2022

Hours	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-8:50	Office hours	RWM 6339 Vin 250	Office hours	RWM 6339 Vin 250	Field Research at MIR Center
9:00-9:50	Office hours		Office hours		
10:00-10:50	RWM 3331 RAS 105	Office Hours	RWM 3331 RAS 105	Office Hours	
11:00-11:50	Lunch	RWM 2321 A 113	Lunch	RWM 2321 A 113	
12:00-12:50					
1:00-1:50	Field Research at MIR Center	Field Research at MIR Center	RWM 3331 Lab MIR 105	Field Research at MIR Center	
2:00-2:50					
3:00-3:50					
4:00-4:50					

Office Hours are also available on Monday, Tuesday, Wednesday, and Thursday afternoons by appointment. Appointments for office hours can be made by email (Cody.Scott@angelo.edu) or by text message (325-656-1851).

General Policies Related to This Course

All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook^a](#)
- [Angelo State University Catalog^b](#)

Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university's [Statement of Academic Integrity^c](#).

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](#).^d 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

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#)^e for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)^f in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the [ASU Writing Center](#).^g

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for [Observance of Religious Holy Day^h](#) for more information.

Title IX at Angelo State University

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 Director of Title IX Compliance/Title IX Coordinator at:

Michelle Miller, J.D.
Special Assistant to the President and Title IX Coordinator
Mayer Administration Building, Room 210
325-486-6357
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

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 about Title IX in general you may visit www.angelo.edu/title-ix.

^a <https://www.angelo.edu/current-students/student-handbook/>

^b <https://www.angelo.edu/academics/catalog/>

^c <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>

^d <https://www.angelo.edu/current-students/disability-services/>

^e <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

^f <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>

^g https://www.angelo.edu/current-students/writing-center/academic_honesty.php

^h <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>