RWM 3331
Principles of Range Management
Lecture: MW 10:00-10:50 Vin 250
Lab Monday 1:00-2:50, 3-4:50
Lab Tuesday 1-2:50

INSTRUCTOR: Dr. Cody B. Scott, VIN 222, 486-6744
Cody.Scott@angelo.edu

Office Hours: See attached schedule; anytime my office door is open

Learning Outcome:
The objective of this course is to introduce students to the ecological principles underlying Range Management. Students will be expected to have a basic understanding of: (1) the role of range management in meeting the needs of society, (2) growth and development of individual plants, (3) tolerance/avoidance of herbivory, (4) succession and how plant communities evolve over time, (5) important management issues like determining carrying capacity and stocking rate, and (6) food and habitat selection by herbivores once the course is completed.

Each student learning outcome will be assessed independently using select questions from sectional exams.

Readings:
Readings will be assigned throughout the semester. Each reading must be read before class.

Notes:
Each student should purchase a copy of the lecture notes from the ASU bookstore. I provide each student with a copy of the notes 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.

As a related issue, it is important for you to attend every class and lab and actively participate in class discussions. Otherwise, you may have a difficult time passing this class. To encourage regular attendance, pop quizzes over assigned readings and lab activities may be given.

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. Coming to class and sleeping through class does count as an absence. If you miss more than 3 class meetings, you will lose 5 points from your final grade. For each absence thereafter, you will lose 1 point/absence.
### Grading

<table>
<thead>
<tr>
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<th>Points</th>
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<tbody>
<tr>
<td>Exams/Quizzes (50 pts. Each)</td>
<td>350</td>
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<tr>
<td>Plant Identification Quizzes</td>
<td>100</td>
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<tr>
<td>Morphology Lab Quiz and other laboratory assignments</td>
<td>150</td>
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<tr>
<td>Discussion/pop quizzes</td>
<td>100</td>
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#### Discussion/Quizzes:

We will begin each new section of the notes with a reading. I will announce the appropriate reading during class and we will discuss the article during the next meeting. To encourage you to read each article, we will begin with a very brief and easy pop quiz. I will try and formulate questions that will be easy to answer if you read the article. Thereafter, I will give the class 4-5 discussion questions from the article. You will work in small groups to answer each question. Once everyone has answered each, we will review each question.

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 (A or B) if you participate in class and turn in all of your assignments. If you have a problem turning in your assignments or in attending class, please let me know. **Leave me a phone message or send me an email if you will miss class on a day that an assignment is due!** Prior notification is required if you wish to turn in an assignment late.

If you are caught cheating on any assignment in this class, you will receive a grade of zero. Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both printed and web versions of the Student Handbook.

Students with disabilities (academic or physical) should contact the Dean of Student Life. Thereafter, proper alterations to the course will be made.

A student who intends to observe a religious holyday 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.
Tentative Schedule of Material and Exams

<table>
<thead>
<tr>
<th>Day</th>
<th>Subject</th>
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<tbody>
<tr>
<td>8-28</td>
<td>Introduction, Syllabus, Overview</td>
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<tr>
<td>8-30</td>
<td><em>Reading and Discussion: Warblers, vireos and tanks</em></td>
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<tr>
<td>9-4</td>
<td>Holiday</td>
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<tr>
<td>9-6</td>
<td>Importance of Range Management</td>
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<td>9-11</td>
<td>Importance of Range Management</td>
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<tr>
<td>9-13</td>
<td>Importance of Range Management</td>
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<tr>
<td>9-18</td>
<td><strong>Quiz 1</strong>; Introduction to Planning and Science</td>
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<tr>
<td>9-20</td>
<td><em>Reading and Discussion: Planning and Science (Provenza)</em></td>
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<td>9-25</td>
<td>Planning and Science</td>
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<td>9-27</td>
<td>Planning and Science</td>
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<td>10-2</td>
<td><strong>Quiz 2</strong>; Introduction to Plant Autecology</td>
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<tr>
<td>10-4</td>
<td><em>Reading and Discussion: Plant Autecology (Briske)</em></td>
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<td>10-9</td>
<td>Plant Autecology</td>
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<td>10-11</td>
<td>no class</td>
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<td>10-16</td>
<td><strong>Quiz 3</strong>; Introduction to Plant Synecology</td>
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<tr>
<td>10-18</td>
<td><em>Reading and Discussion: Plant Synecology (Tausch et al.)</em></td>
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<td>10-23</td>
<td>Plant Synecology</td>
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<td>10-25</td>
<td>Plant Synecology</td>
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<td>10-30</td>
<td><strong>Quiz 4</strong>; Introduction to Rangeland Hydrology</td>
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<tr>
<td>11-1</td>
<td><em>Reading and Discussion: Rangeland Hydrology (Thurow)</em></td>
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<td>11-6</td>
<td>Hydrology and Grazing</td>
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<td>11-8</td>
<td><strong>Quiz 5</strong>; Introduction to Grazing Management</td>
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<td>11-13</td>
<td><em>Reading and Discussion: Grazing Systems (Taylor et al.)</em></td>
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<td>11-15</td>
<td>Grazing Systems, Stocking Rates</td>
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<td>11-20</td>
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<td>11-27</td>
<td><strong>Quiz 6</strong>; Introduction to Diet Selection</td>
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<td>11-29</td>
<td><em>Reading and Discussion: Diet Selection (Provenza)</em></td>
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<td>12-4</td>
<td>Diet and Habitat Selection</td>
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<td>12-6</td>
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<td>12-11</td>
<td><strong>Final Exam (Quiz 7)</strong></td>
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<td>Lab Activity</td>
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<td>Plant ID</td>
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<td>3</td>
<td>Plant Identification (Grasses)</td>
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<td>4</td>
<td><strong>I.D. Quiz of Grasses</strong>; Review Important forbs and Shrubs</td>
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<td><strong>I.D. Quiz of Important Forbs and Shrubs</strong></td>
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<td>6</td>
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<td>7</td>
<td>Plant Morphology and Physiology <em>(Morpho. Quiz)</em></td>
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<td>8</td>
<td>Range Site, Range Inventory, and Succession</td>
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<td>9</td>
<td>Effects of Grazing on Infiltration, Erosion, and Soil Quality</td>
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<td>10</td>
<td>Determining Stocking Rates</td>
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<td>11</td>
<td>Determining Stocking Rates <em>(Stocking rate quiz)</em></td>
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<tr>
<td>12</td>
<td>Range Inventory</td>
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<td>13</td>
<td>Range Inventory</td>
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<td>14</td>
<td>Range Improvements</td>
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<td>15</td>
<td>Range Improvements</td>
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<td>Hours</td>
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<td>Lunch</td>
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<td>MIR 105</td>
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STUDENT INFORMATION

1. Name, Major, and Option or Minor.

2. Where are you from and what are your interests?

3. What is your perception of range management and man’s role in managing our environment?

4. What is the most important issue concerning rangelands today?

5. Why are you taking RWM 3331 and what do you expect or want to learn?