

## **RNG 236: INTRODUCTION TO RANGE MANAGEMENT**

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### **COURSE SYLLABUS**

#### ***COURSE INFORMATION***

**RNG 236: Introduction to Range Management** (11334), 3 credits, 11:00-12:15PM TTH, Western Star Career and Technology Center 131

Course Description: Principles of range management which include plant identification, range evaluation, and range improvement.

#### ***INSTRUCTOR***

Jessalyn Bachler, Western Star Career and Technology Center 137, 701-774-4539  
jessalyn.bachler@willistonstate.edu

Office Hours: M-F 10:00-11:00AM or by appointment

#### ***TEXTBOOK & MATERIALS***

Range Management: Principles and Practices, 6<sup>th</sup> Edition - Holechek, Pieper, & Herbel - ISBN: 9780135014165

#### ***STUDENT LEARNING OUTCOMES***

##### **INSTITUTIONAL OUTCOMES**

- 1.) Students will demonstrate effective communication skills.
- 2.) Students will use reasoning skills to analyze and solve problems.
- 3.) Students will demonstrate knowledge of diverse cultures and value systems.
- 4.) Students will apply health-related knowledge to promote physical and mental well-being.

## **PROGRAM OUTCOMES**

- 1.) Demonstrate effective oral and written communication.
- 2.) Demonstrate problem solving strategies within the agriculture industry.
- 3.) Identify agricultural needs within society.
- 4.) Identify how agriculture affects personal and community health.

## **COURSE OUTCOMES**

- 1.) Express possible improvements through range/pasture evaluation, planning and monitoring.
- 2.) Identify common range plants found in ND and correlate each plant with proper indicators.
- 3.) Identify different types of grazing systems.
- 4.) Use grazing system management for specific scenarios.

## **ASSESSMENT TASKS (FOR COURSE OUTCOMES)**

- 1.) Complete textbook readings, questions, and problems demonstrating mastery of both concepts and process skills.
- 2.) Complete examinations demonstrating mastery of both concepts and process skills.
- 3.) Complete physical labs to demonstrate the understanding of rangeland concepts, including plant ID and pasture/grazing management.

## **PROCESS SKILLS**

- History and overview of range management
- Range plant ID of grasses, forbs, sedges, rushes, and woodies
- Understanding of growing point locations
- Understanding of vegetative and reproductive stages
- Understanding of ecosystem processes and relationships
- Monitoring plants and managing grazing
- Identify different grazing systems and opportunities with each
- Monitor and improve pasture conditions

## **CONCEPTS & ISSUES**

- Rangeland and human interactions
- Plant physiology
- Plant morphology
- Ecology
- Inventory control and stocking
- Grazing systems
- Pasture management

## ASSESSMENT PORTFOLIO

Each degree seeking student is required to maintain an assessment portfolio on Blackboard for his/her time at Williston State College. For this class you should include your syllabus, evidence of completing learning outcomes, and a reflection paper of what you learned in this class.

## GRADING SYSTEM

Required Assignments	Points	Percentage (%)
Tests (2): 1 Midterm and 1 Final	$150 \times 2 = 300$	24
Quizzes (4)	$75 \times 4 = 300$	24
Papers (4)	$50 \times 4 = 200$	16
Lab Reports (6)	$50 \times 6 = 300$	24
Range Tour	150	12
<b>Total</b>	<b>1250</b>	<b>100</b>

**\*\*\*Bonus points will be awarded throughout the semester; be present and pay attention!**

## GRADING BASIS

Letter	Percent
A	$\Rightarrow 90$
B	$\Rightarrow 80$
C	$\Rightarrow 70$
D	$\Rightarrow 60$
F	$< 60$

## ASSIGNMENT DESCRIPTION

- Only two tests will be given throughout the semester, a midterm and a final; they will be comprehensive.
  - **Failure to complete the final exam will result in an “F” for a final grade in the course.**
- The four quizzes will only cover current material, and will NOT be comprehensive.
  - **Tests/quizzes must be completed on the date given, or a “0%” will be received. Arrangements must be made TWO DAYS prior to when the test/quiz is given in order to make up test/quiz beforehand. You will not be allowed to take the test after the given date – NO EXCEPTIONS.**
- Four two-page papers and six one-page lab reports will be assigned throughout the semester. These papers/lab reports will be written double-spaced in Times New Roman font, 12 pt. In the header, will be the class and assignment label, the date, and your name; this is shown below:

RNG 236 – Paper #1

8-30-19

Your Name

- All assignments/lab reports are to be turned in on Blackboard by the due date.
- **All assignments are due one week after assigned. For each business day assignments are late, 20% will be deducted until the grades reaches 0%.**
- **The class will attend a two-day range management tour on September 23<sup>rd</sup>-24<sup>th</sup>. Attendance is mandatory, as this trip will count for 12% of your final grade.**
- More detailed guidance and rubrics will be provided for each of the assignments.

**SCOPE AND SEQUENCE OF THE COURSE (SUBJECT TO CHANGE)**

<b>Week</b>	<b>Chapter</b>	<b>Assignment/Lab/Test</b>
1	1 – Rangeland and Man	Paper #1 – Challenges in Range Management
2	2 – Range Management History	Lab #1 – Range Overview Native/Tame
3	3 – Rangeland Physical Characteristics 4 – Description of Rangeland Types	
4	5 – Range Plant Physiology	
4	1, 2, 3, 4, 5	<b>Quiz #1</b>
5	<b>WSC/DSU Range Management Tour</b>	<b>Lab #2 – Range Tour</b>
5	6 – Range Ecology	
6	7 – Range Inventory and Monitoring 18 – Range Management Planning, Computers, and the Future	
7	8 – Considerations Concerning Stocking Rate	Lab #3 – Clipping Squares and Range Monitoring Paper #2 – Rangeland Monitoring
8	Range Tour, 7, 18, 8	<b>Quiz #2</b>
8	REVIEW	<b>MIDTERM</b>
9	9 – Selection of Grazing Methods	Lab #4 – Grazing Systems
10	10 – Methods of Improving Livestock Distribution 11 – Range Animal Nutrition	
11	12 – Range Management for Multiple Use	Lab #5 – Forest Service Guest Lecture
12	Multiple-Use Comparison Article Q#3 Review	Paper #3 – Rangeland Multiple-Use Systems
12	9, 10, 11, 12	<b>Quiz #3</b>
13	13 – Range Livestock Production 14 – Range Wildlife Management	
14	15 – Manipulation of Range Vegetation	Paper #4 – Range Management Systems
15	16 – Range Management in Developing Countries 17 – Range Economics	Lab #6 – Range Scientist Guest Lecture
16	Q#4/FINAL Review	
16	13, 14, 15, 16, 17	<b>Quiz #4</b>
17	REVIEW	<b>FINAL</b>

## DISABILITY STATEMENT

Williston State College is committed to providing equal access to students. If you have a disability which may impact your performance, attendance, or grades in this course that requires accommodations, you must first register with the WSC Accessibility Support Office. Please note that classroom accommodations cannot be provided until your instructors receive an Accommodations Form, signed by you and the Accessibility Support Office.

## IMPORTANT DATES

- **Last day to drop: 9-4-2019**
- **Last day to withdraw (with W): 11-15-2019**
- For important dates concerning holidays, last date to withdraw from class, etc., please visit the WSC catalog available on the website: [www.willistonstate.edu](http://www.willistonstate.edu).

## ACADEMIC RESOURCES

Take advantage of academic resources available to you at Williston State College:

- **Communication Lab:** Supplemental instruction is provided to assist students who are either having difficulty or desiring extra help with specific subjects. The Communication Lab assists with composition, writing, communication, and public speaking. The Communication Lab is located in Stevens Hall 120. Students should make appointments at [wsc.writinglab@willistonstate.edu](mailto:wsc.writinglab@willistonstate.edu).
- **Math Lab:** Supplemental instruction is provided to assist students who are either having difficulty or desiring extra help with specific subjects. The Math Lab assists with all math needs. The Math Lab is located in Stevens Hall room 213.
- **Learning Commons:** It's not just the Library anymore. In addition to the normal library functions (book checkout, research assistance, etc.), the Learning Commons serves a number of other functions. Get help with Blackboard and other Distance Ed questions. The "technology counter" provides an opportunity to play with some of the latest technology. Computers and printers available. If you have questions, call (701-774-4226). To contact the Office of Extended Learning please email [wsc.extendedlearning@willistonstate.edu](mailto:wsc.extendedlearning@willistonstate.edu).
- **SmarThinking:** Web based program that offers live tutoring services in a variety of subject areas at no cost to the student. With SmarThinking you can access live tutors, ask a question and come back the next day for a response, and/or submit writing pieces to be reviewed. If you have further questions or need assistance in using this great tool, please stop in the Learning Commons in Stevens Hall or contact Katie Peterson at 701-774-4594.

## STUDENT ACADEMIC INTEGRITY

Work submitted for this course must follow Student Academic Integrity as cited in the WSC Student Code of Conduct, p. 14:

- Acts of cheating and plagiarism are prohibited. Cases of academic dishonesty may be treated as an academic matter or as a disciplinary matter at the discretion of the instructor.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment. It includes using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.
- Plagiarism is presenting someone else's work or ideas as your own, with or without their consent, by incorporating it into your work without full acknowledgement. All published and unpublished material, whether in manuscript, printed or electronic form, is covered under this definition.
- Self-plagiarism is the use of one's own previous work in another context without citing that it was used previously.
- The instructor may reflect the incident of academic dishonesty through the assignment of the student's grade in the course. If the student has a grievance related to this action, that grievance would be directed to the Chair of the department in which the course is housed.
- Alternatively, the instructor may refer the case as a disciplinary matter to the Vice President for Academic Affairs. The Vice President for Academic Affairs may refer the case to the Student Review Committee for action.

Breach of academic integrity may result in failure of the assignment, exam, and/or class.

### **STUDENT RESPONSIBILITIES:**

- You are expected to read the relevant materials and participate in class discussions in a timely manner.
- You are expected to respect your fellow students and the instructor in online and on campus discussions.
- It is your responsibility to ask questions when you are uncertain about assignments or course materials.
- If you have questions concerning grades, you should contact the Instructor immediately. You are responsible for checking Blackboard in a timely fashion to ensure that the grade recorded is your correct grade.
- It is your responsibility to contact the instructor as soon as possible if you are encountering any issues that would hinder your performance in this class.
- You are responsible for earning your grade (with the instructor making every effort to help you learn the material).
- If you are concerned about your grade, you should speak to the Instructor NO LATER than mid-term. No consideration will be given to request to adjust your grade at the end of the semester unless there is an error in calculations.

### **GRIEVANCE POLICY**

Occasionally, students are dissatisfied with some dimension of the course. In such cases, students should first schedule a meeting with the instructor. If the student and instructor cannot reach a satisfactory resolution, the student should schedule a meeting with the Chair of the Department. (See page 10 of the Student Code of Conduct.)

### **TITLE IX**

Survivors of sexual assault, domestic violence, and sexual harassment: please be aware that as an instructor, I am legally obligated to report all instances of sexual assault, domestic violence, and sexual

harassment involving students. If you would like to speak to someone confidentially, please contact the WSC Counselor at (701)774-4212 (they are NOT mandated to report such instances).

### **FINAL EXAMS/ACTIVITIES**

Students are required to take the final examination or engage in the final activity on the date and at the time presented as part of the course syllabus. Exceptions may be made only in emergency situations and in the case of scheduling conflicts with college sponsored events by promptly submitting a written request detailing the circumstances to the instructor of the course. **Your meeting time for your final is: Tuesday, December 17<sup>th</sup> at 11:30AM-1:30PM.**