I. INTRODUCTION

A. The purpose of this course is to introduce to the student the basic concepts concerning Rangeland and its uses. It includes (1) rangeland characteristics, (2) brush management, (3) and herbicide use and management.

B. The course is required for the Associates in Science Degree, Equine Management Certificate of Completion, and Agriculture Production Certificate of Completion.

C. This course is occupationally related and serves as preparation for careers in the fields of the agricultural sciences, farm and ranch management, and perhaps other fields as well.

D. Prerequisite(s): None.

II. LEARNING OUTCOMES

Upon successful completion of Range Management, the student will be able to:

A. List the physical factors that effect rangeland potential.

B. List and describe the different rangeland types found in the U.S.

C. Describe and identify the methods of brush control.

D. Describe and design various grazing systems.

E. For SCANS Competencies and Foundation Skills, see attachment I.

III. INSTRUCTIONAL MATERIALS

The instructional materials identified for this course are viewable through www.ctcd.edu/books
IV. COURSE REQUIREMENTS

A. Reading Assignments: Reading assignments will be assigned in accordance with and in addition to class work and lab activities. Students will be responsible for all assigned material on exams.

B. Class Projects: Class projects may be assigned in accordance with and in addition to class work and lab activities.

C. Class Performance: Class attendance is required and expected. Attendance will be taken at each lecture. Failure to sign the attendance sheet for any reason will constitute an absence. Anyone with six (6) absences can automatically be dropped from the class and receive an F for the class (CTC Policy). Work or exams for excused absences must be completed and turned in prior to the absence. Students absent will be responsible for acquiring class notes from other class members. Any work or exam not completed will be assigned a grade of zero.

V. EXAMINATIONS

A. Three or four major exams and a comprehensive final exam will be given. The exams will be mainly objective, to be graded by the instructor and returned to the student.

B. A review will be given prior to each exam.

C. Missed exams will be scored as a zero.

D. Make-up exams will not be given.

VI. SEMESTER GRADE COMPUTATION

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major exams</td>
<td>100 points each</td>
</tr>
<tr>
<td>Project</td>
<td>100 points</td>
</tr>
<tr>
<td>Lab work</td>
<td>100 points</td>
</tr>
<tr>
<td>Final exam</td>
<td>200 points</td>
</tr>
</tbody>
</table>

The letter grade for the course is based upon a percentage of total points throughout the semester. Grades will be computed as follows:

- 100 – 90% = A
- 89 – 80% = B
- 79 – 70% = C
- 69 – 60% = D
- 59 - 0% = F
VII. NOTES & ADDITIONAL INSTRUCTIONS FROM COURSE INSTRUCTOR

A. Course Withdrawal: It is the student’s responsibility to officially withdraw from a course if circumstances prevent attendance. Any student who desires to, or must, officially withdraw from a course after the first scheduled class meeting must file a Central Texas College Application for Withdrawal (CTC Form 59). The withdrawal form must be signed by the student.

CTC Form 59 will be accepted at any time prior to Friday of the 12th week of classes during the 16-week fall and spring semesters. The deadline for sessions of other lengths:

<table>
<thead>
<tr>
<th>Duration</th>
<th>Deadline for Withdrawal</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-week session</td>
<td>Friday of the 8th week</td>
</tr>
<tr>
<td>8-week session</td>
<td>Friday of the 6th week</td>
</tr>
<tr>
<td>5-week session</td>
<td>Friday of the 4th week</td>
</tr>
</tbody>
</table>

The equivalent date (75% of the semester) will be used for sessions of the other lengths. The specific last day to withdraw is published each semester in the Schedule Bulletin.

A student who officially withdraws will be awarded the grade of “W”, provided the student’s attendance and academic performance are satisfactory at the time of official withdrawal. Students must file a withdrawal application with the college before they may be considered for withdrawal.

A student may not withdraw from a class for which the instructor has previously issued the student a grade of “F” or “FN” for nonattendance.

B. Administrative Withdrawal: An administrative withdrawal may be initiated when the student fails to meet College attendance requirements. The instructor will assign the appropriate grade on CTC Form 59 for submission to the registrar.

C. Incomplete Grade: The College catalog states, “An incomplete grade may be given in those cases where the student has completed the majority of the course work but, because of personal illness, death in the immediate family, or military orders, the student is unable to complete the requirements for a course…” Prior approval from the instructor is required before a grade of “I” for Incomplete is recorded. A student who merely fails to show for the final examination will receive a zero for the final and an “F” for the course.
D. **Cellular Phones and Beepers:** Cellular phones and beepers will be turned off while the student is in the classroom or laboratory.

E. **Americans With Disabilities Act (ADA):** Disability Support Services provide services to students who have appropriate documentation of a disability. Students requiring accommodations for class are responsible for contacting the Office of Disability Support Services (DSS) located on the central campus. This service is available to all students, regardless of location. Explore the website at [www.ctcd.edu/disability-support](http://www.ctcd.edu/disability-support) for further information. Reasonable accommodations will be given in accordance with the federal and state laws through the DSS office.

F. **Instructor Discretion:** the instructor reserves the right of final decision in course requirements.

G. **Civility:** Individuals are expected to be cognizant of what a constructive educational experience is and respectful of those participating in a learning environment. Failure to do so can result in disciplinary action up to and including expulsion.

H. **Office Hours:** Students are encouraged to take advantage of the instructor’s office hours. No appointment is necessary for such visits.

I. **Unethical Behavior:** Cheating in any form will not be tolerated, and will result in the immediate expulsion from the class.

J. **Arriving Late:** Students are expected to arrive to lecture, labs, and exams on time. Students arriving late not only interrupt the instructor but also the class. Students arrive late to exams will not be given additional time to complete the exam.

K. **Disruptive Behavior:** Any type of student behavior that interferes with the rights of fellow students will not be tolerated. Students using abusive language and engaging in disruptive behavior will be asked to leave the classroom.

**VIII. COURSE OUTLINE**

A. **Unit One:** Rangeland Characteristics

1. Learning Outcomes: Upon successful completion of this unit the student will:
a. Describe the physical factors affecting rangeland.
b. Identify and describe terms associated with rangeland and rangeland management.
c. Explain the importance of climatic factors on rangeland

2. Learning Activities:
   a. Classroom lecture/discussion
   b. Student homework study
   c. Reading assignment

3. Unit Outline
   a. Precipitation
   b. Wind
   c. Temperature
   d. Growing Season
   e. Humidity
   f. Climate
   g. Topography
   h. Soil

B. Unit Two: U.S. Rangeland Types

1. Learning Outcomes: Upon successful completion of this unit the student will:
   a. Describe the four types of rangeland found in the U.S.
   b. Locate the rangeland area of the U.S.
   c. Identify the physical characteristics associated with each rangeland type.

2. Learning Activities:
   a. Classroom lecture/discussion
   b. Student homework study
   c. Reading assignment

3. Unit Outline:
   a. Grasslands
   b. Desert Shrublands
   c. Woodlands and Forests
   d. Tundra
C. **Unit Three:**

1. **Learning Outcomes:** Upon successful completion of this unit the student will:
   
a. Define succession.
b. Describe how succession effects rangeland.
c. Identify types and stages of succession.

2. **Learning Activities:**
   
a. Classroom lecture/discussion
b. Student homework study
c. Reading assignment

3. **Unit Outline**
   
a. Definition
b. Types of Succession
c. Stages of Succession

D. **Unit Four: Brush Management**

1. **Learning Outcomes:** Upon successful completion of this unit the student will:
   
a. Describe the methods of brush control.
b. Identify and describe mechanical brush management.
c. Identify and describe chemical brush management.
d. Identify and describe prescribed burning.
e. Identify and describe biological brush management.

2. **Learning Activities:**
   
a. Classroom lecture/discussion
b. Student homework study
c. Reading assignment

3. **Unit Outline:**
   
a. Mechanical Brush Management
b. Chemical Brush Management
c. Prescribed Burning
d. Biological Brush Management