BARTON COMMUNITY COLLEGE
COURSE SYLLABUS

I. GENERAL COURSE INFORMATION

Course Number: AGRI 1120
Course Title: Range and Forage Management
Credit Hours: 3
Prerequisites: None
Division/Discipline: Workforce Training & Community Education/Agriculture A.S. and A.A.S. degrees
Course Description: This course is designed to provide students with a basic understanding of the ecology and sustainable use of permanent native and introduced pastures in livestock production and the types of annual forages, best management practices, and their uses in livestock production.

II. INSTRUCTOR INFORMATION

III. COLLEGE POLICIES

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at disabilityservices@bartonccc.edu.

IV. COURSE AS VIEWED IN THE TOTAL CURRICULUM

This course is part of a curriculum designed to provide students a broad background in crop and livestock production in the region. It is required for the 37 credit hour Beef Cattle Production Certificate and the A.S. in Agriculture. It is an elective course for A.A.S. degrees in the Agriculture Program.

V. ASSESSMENT OF STUDENT LEARNING

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes, Competencies, and Supplemental Competencies:

A. Describe the types of rangeland (permanent native pasture).
   1. List and describe the biotic and abiotic factors of rangeland types.
   2. Identify the overall ecology of rangeland types and the impact of ecological considerations on grazing programs.
   3. List and describe the types of plants found on rangelands, their uses, and their proper management.
   4. List the types of rangeland found in Kansas, their flora, and the advantages and disadvantages of each type.

B. Describe the types of pasture and their importance in livestock production.
   1. List the types of permanent, introduced pastures, their uses, proper management and their fit in grazing systems.

C. List and describe the types of annual forage.
   1. List common summer annual forages, their growth habits, management, feed characteristics, and uses in livestock production.
   2. List common winter annual forages, their growth habits, management, feed characteristics, and uses in livestock production.

D. Use the principles of range ecology for optimal pasture use.
   1. List and define the possible procedures and practices to maintain and/or improve the condition of permanent pastures and optimize livestock performance.

E. List and define the various types of grazing systems for permanent and annual pastures.
   1. List the effects of grazing systems on forage production, the plant community, and animal performance.
   2. Outline the advantages and disadvantages of various grazing systems.
   3. Identify the best fit for grazing systems based on climate and rangeland type.

F. Explain the proper implementation and use of range/pasture inventorying for optimal grazing conditions.
   1. Outline the procedures and equipment necessary for the proper implementation of inventorying and monitoring all types of pasture and forage.
   2. Illustrate the proper interpretation of rangeland monitoring data and the formulation of recommendations based on an inventory.
   3. Demonstrate the proper techniques to identify range and pasture plants using dichotomous keys.

VI. INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS

VII. TEXTBOOKS AND OTHER REQUIRED MATERIALS

VIII. REFERENCES

IX. METHODS OF INSTRUCTION AND EVALUATION

X. ATTENDANCE REQUIREMENTS

XI. COURSE OUTLINE