

# **BARTON COMMUNITY COLLEGE COURSE SYLLABUS**

## **I. GENERAL COURSE INFORMATION**

Course Number: AGRI 1108

Course Title: Farm Crop Production

Credit Hours: 3

Prerequisites: None

Division/Discipline: Workforce Training & Community Education/Agriculture, Crop Protection Program, Agriculture Business Management.

Course Description: A study of traditional and nontraditional farm crops in Kansas including resources and techniques used to produce these crops using BMPs (Best Management Practices). This course emphasizes mitigating agricultural and economic risk.

## **II. CLASSROOM POLICY**

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.

The College reserves the right to suspend a student for conduct that is detrimental to the College's educational endeavors as outlined in the College Catalog.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. Learn the rules of, and avoid instances of, intentional or unintentional plagiarism.

Anyone seeking an accommodation under provisions of the Americans with Disabilities Act should notify Student Support Services. Additional information about academic integrity can be found at the following link: <http://academicintegrity.bartonccc.edu/>

## **III. COURSE AS VIEWED IN THE TOTAL CURRICULUM**

This course is designed to provide a background and understanding of crop production in Kansas, including traditional and new less traditional crops. Students will gain an understanding of not simply individual crops but their integration in cropping systems and the effects of climate, weather, and soil type on crop production. This course is intended for students in the Crop Protection Program, Agricultural Business Management and an elective for the A.S. Agriculture degree.

## **IV. 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.

Core Competencies:

1. List and accurately describe the ecological factors determining crop production. These factors include:
  - a. The soil environment
  - b. Climate
  - c. Weather
  - d. Biota
2. Identify and accurately describe the methods available to producers to manipulate the ecological factors of crop production and their effects.
3. List the seventeen essential plant nutrients and their functions in plants.
4. List the traditional crop plants for Kansas and their production practices. Traditional crop plants include:
  - a. Hard red winter wheat
  - b. Grain sorghum
  - c. Corn
  - d. Soybeans
  - e. Alfalfa
  - f. Traditional forage crops
  - g. Sunflower
5. List the nontraditional crop plants for Kansas and their production practices. Nontraditional crop plants for Kansas include:
  - a. Winter canola
  - b. Barley
  - c. Triticale
  - d. Sesame
  - e. Cotton
6. Construct possible crop rotations using the crop plants in competencies 4 and 5 with emphasis on minimizing agronomic and economic risk. List and discuss the reasoning behind crop rotation choices.
7. List and define the differences between traditional and organic crop production practices.
8. Demonstrate the ability to accurately apply mathematical concepts appropriate to crop production.
9. List and define common agronomic terms in crop production.

**V. INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

**VI. TEXTBOOKS AND OTHER REQUIRED MATERIALS**

**VII. REFERENCES**

**VIII. METHODS OF INSTRUCTION AND EVALUATION**

**IX. ATTENDANCE REQUIREMENTS**

**X. COURSE OUTLINE**