**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

1. **GENERAL COURSE INFORMATION**

Course Number: AGRI 1106

Course Title: Principles of Animal Science

Credit Hours: 3

Prerequisites: None

Division/Discipline: Workforce Training & Community Education/Agriculture Business Management, Beef Cattle Production

Course Description: This course introduces students to animal science, providing a foundation for further learning in animal agriculture, and stimulates interest in pursuing additional courses and experiences in the animal sciences. Students majoring in animal science are provided basic principles and concepts preparing them for more specialized and advanced courses. This course is the prerequisite for all other animal science courses. Nonmajors will receive information allowing them to understand animal agriculture and its role in our society and economy.

1. **INSTRUCTOR INFORMATION**
2. **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](mailto:disabilityservices@bartonccc.edu).

1. **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

This course is designed to increase the student’s understanding and literacy in the area of

animal agriculture and exposes the student to the animal agriculture industry, provides the basic knowledge needed for more specialized and advanced agriculture courses, and develops critical thinking in order to evaluate oral and written statements concerning the livestock industry.

1. **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:

1. Explain the importance of animal agriculture in our society.
2. Describe the demographics of the American farm population.
3. Describe the geographic distribution of livestock production systems.
4. List and explain the ancillary industries involved in agribusiness.
5. Describe livestock digestive and metabolic systems and the importance of nutrition in animal production systems.
6. Classify the six nutrients and identify their importance in livestock production.
7. Identify, label, and discuss the parts and functions of the ruminant, non-ruminant, and avian digestive and metabolic systems.
8. Define feed animals, breeding animals, and slaughter animals describing the characteristics determining performance differences in each group.
9. Describe and compare the characteristics of the different animal species production systems.
10. Categorize and describe the characteristics of various livestock feeding enterprises.
11. Describe the animal’s environment and its ability to adapt to that environment.
12. Explain the importance of animal health and behavior as it relates to profitable animal production.
13. Describe the physiology of reproduction.
14. Describe reproductive management concepts as they apply to animal agriculture.
15. List mating and breeding systems and their application to animal agriculture.
16. Explain genetics, heritability, and genetic improvement as it applies to livestock.
17. Categorize and describe the production and processing of high quality animal products—meat, milk, eggs, wool—and the use of the horse for work and pleasure.
18. Explain the marketing processes for livestock and livestock products.
19. Describe the production, marketing and market classes for work and pleasure horses.
20. List, describe, and compare live animal market classes and grades as applied to livestock.
21. Describe and analyze the processing and marketing of animal products—meat, milk, eggs, and wool.
22. Explain the basics of selection of breeding and market animals.
23. Describe swine, beef, sheep, dairy, poultry, and horse production.
24. Identify and compare the major breeds of cattle, sheep, swine, and horses in the U.S.
25. **INSTRUCTOR’S EXPECTATIONS OF STUDENTS IN CLASS**
26. **TEXTBOOKS AND OTHER REQUIRED MATERIALS**
27. **REFERENCES**
28. **METHODS OF INSTRUCTION AND EVALUATION**
29. **ATTENDANCE REQUIREMENTS**
30. **COURSE OUTLINE**