

## Common Course Syllabus

Department: Science

Discipline: Agriculture

Course Number: AGRI 1419

Course Title: Introduction to Animal Science

Credit: 4      Lecture: 3      Lab: 1

This course satisfies a core curriculum requirement: Yes – Natural Science

Prerequisite: None

### **CORE OBJECTIVES TO BE ADDRESSED:**

**Communication** – to include effective written, oral and visual communication

**Critical Thinking Skills** – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

**Empirical and Quantitative Skills** – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

**Teamwork Skills** – to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

**Available Formats:** Conventional

**Campuses:** Levelland Campus

**Textbook:** Introduction to Animal Science, 5/E W. Stephen Dameron (optional)

For this course, we will be utilizing iCEV for required video viewing assignments. The cost for a semester-long subscription to iCEV is \$30.00. For information on how to purchase your subscription, please go to [www.icevonline.com](http://www.icevonline.com). You will see an example in week 1 content in Blackboard. If you have any issues signing up for iCEV, please contact Kassie Jo Winn at KassieJo.Winn @cevmultimedia.com or 505-288-0234.

**Supplies:** This course requires on-line supplementation. Blackboard will be used extensively.

**Course Specific Instruction:** Supplement material and data will be assigned with the Blackboard learning system or assigned web sites at various stages within the course.

**Course Description:** A survey course in animal science intended to acquaint the student with scientific principles used for the production of domesticated animals.

**Course Purpose/Rational/Goal:** The student will understand the key aspects and basic scientific principals used in domestic animal production. Fundamental principles of animal science will be emphasized, to provide students a general background in animal agriculture.

**Course Requirements:** To maximize the potential to complete this course, a student should attend all class and laboratory meetings, take notes, participate in class, and complete all homework assignments and examination including final examinations.

**Course Evaluation:** Please refer to the instructor's course information sheet for specific items used in evaluating student performance.

**Attendance Policy:** Regular class attendance is required of all students. When an unavoidable reason for class absence arises, an official college trip or activity, the student is allowed to make up work missed within one week after missing class. In case of students missing every class during any fourteen consecutive calendar-day periods, the office of student relations will be notified and could be dropped from the class as determined by the instructor.

### **Student Learning Outcomes / Competencies:**

Upon completion of this course and receiving a passing grade, the student will be able to define and understand the practical application of the following:

1. The place of Animals and Animal Science in the Lives of Humans
2. The Animal Industries
3. The Biological Sciences of Animal Sciences
4. Animals and Society

### **Course Outline:**

#### **Section 1:** The Place of Animals and Animal Science in the Lives of Humans

- 1.1 Introduction to the Animal Sciences
- 1.2 The value of Animals to Humanity
- 1.3 Factors Affecting World Agricultural Structure
- 1.4 Worldwide Systems of Agricultural Production
- 1.5 Food Safety and Consumer Concerns
- 1.6 Animal Welfare and Animal Rights

## **Section 2: The Animal Industries**

2.1 Market Coordination in the Beef, Pork, and Sheep/Goat Industries

2.2 Beef Cattle

2.3 Swine

2.4 Sheep and Goats

2.5 Horses

2.8 Pet and Companion Animals

## **Section 3: Nutrition and Nutrients**

3.1 Introduction to Nutrition, Nutrient Classification

3.2 The Gastrointestinal Tracts

Ruminant Nutrition

Monogastric Nutrition

3.3 Feedstuffs Classification

3.4 Feed Stuff and Rations

## **Section 4 Physiology of Reproduction**

4.1 Animal Reproduction

4.2 Female Reproductive System

4.3 The Estrous Cycle

4.4 Pregnancy and Parturition

4.5 Male Reproductive System

4.6 A.I., Embryo Transfer, and Advanced Reproductive Techniques

## **Section 5: Genetics**

4.1 Genetics and Animal Breeding

4.2 Genes and Chromosomes

4.3 Heredity

4.4 Biotechnology and Genetic Engineering

4.5 Careers and Career Preparation in the Animal Sciences

Accommodations:

**EQUAL OPPORTUNITY:** South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities regardless of race, color, national origin, religion, gender, disability, or age.

ADA Statement

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

Note to students with disabilities: If you have a disability-related need for reasonable academic adjustments in this course, provide the (Instructor) with a letter of accommodation from Disability Services Office. If you need immediate accommodations or physical access, please arrange to meet with the Disability Services Office before the next class meeting.