South Plains College

Common Course Syllabus: AGRI 1419 001

Revised Spring 2025

Department: Science

Discipline: Agriculture

Course Number: AGRI 1419.all

Course Title: Introduction to Animal Science

Credit: 4 Lecture: 3 Lab: 3

(4:3:3) Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock. Laboratory activities will reinforce scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Semester Hours: 4 Lecture Hours: 3 Lab Hours: 3

Note: This course satisfies a **030 Life and Physical Sciences** Core Curriculum requirement.

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: All materials will be supplied within Blackboard.

Supplies: This course requires on-line supplementation (see above). 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 Purpose/Rational/Goal: The student will understand the key aspects and basic scientific principles 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: There will be 4 major examinations. Additional homework and quizzes will be assigned as the opportunity presents itself. Lab requirements are due on a weekly basis. Make-up exams will be given only for special reasons, and arrangements must be made with the instructor prior to the scheduled exam. In addition, make-up exams are significantly harder than the original exams.

A: 90-100 B: 80-89 C: 70-79 D: 60-69 F: 0-59

5 Exams: 80 % each

Weekly lab 20%

Labs can be found within Blackboard each week. They contain a video(s) and quizzes to be completed each week.

Grades can be viewed within Blackboard. ICEV grades will be transferred to Blackboard in a timely manner.

RULES OF THE ROAD: Successful teaching and learning require a partnership between the teachers and students. Everyone is in this classroom to learn something. I will come to class each day prepared to do the following: 1) to deliver the lecture and direct discussion to the best of my ability; 2) to provide an atmosphere that fosters learning; 3) to respect you as unique individuals with your own interests and talents. In turn, I require the following of you: 1) to acquire assistance from the instructor (never hesitate to call or stop by my office); 2) to make a genuine effort to work the assigned problems as soon as possible; 3) to respect the other members of the class as unique individuals. The best way to show respect for the other members of the class is to remember the golden rule.

Attendance Policy: Students are expected to attend all classes to be successful in a course. The student may be administratively withdrawn from the course when absences become excessive as defined in the course syllabus. After 4 unexcused absences, students will be warned of excessive absences. **After 6 unexcused absences, students will be dropped from the course with an "X".**

When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the instructor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period as determined by the instructor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay reporting to a class after official enrollment, absences will be attributed to the student from the first-class meeting.

Students who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the instructor. Instructors are responsible for clearly stating their administrative drop policy in the course syllabus, and it is the student's responsibility to be aware of that policy.

It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate, and the student will owe any balance resulting from the adjustment.

Plagiarism and Cheating: Students are expected to do their own work on all projects, quizzes, assignments, examinations, and papers. Failure to comply with this policy will result in an F for the assignment and can result in an F for the course if circumstances warrant.

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill.
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation.
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion.
2. Discovering the content of an examination before it is given.
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment.
4. Entering an office or building to obtain an unfair advantage.
5. Taking an examination for another.

6. Altering grade records.
7. Copying another's work during an examination or on a homework assignment.
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original students.
9. Taking pictures of a test, test answers, or someone else's paper.

Student Code of Conduct Policy: Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning**.** Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

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. Explain the role of animal agriculture in providing benefits for humankind.

2. Identify common livestock breeds and classes.

3. Define terminology specific to animal science disciplines.

4. Demonstrate understanding of fundamental animal science principles including selection, reproduction, nutrition, and health.

5. Apply animal science principles by solving common problems.

6. Identify animal issues of interest to society, and related responsibilities.

Lab:

1. Apply scientific reasoning to investigate questions and utilize animal science tools to collect and analyze data and demonstrate methods.

2. Use critical thinking and scientific problem solving to make informed decisions.

3. Communicate effectively the results of scientific investigations.

4. Explain the role of animal agriculture in providing benefits for humankind.

5. Identify common livestock breeds and classes.

6. Define terminology specific to animal science disciplines.

7. Demonstrate understanding of fundamental animal science principles including selection, reproduction, nutrition, and health.

8. Apply animal science principles by solving common problems.

9. Identify animal issues of interest to society, and related responsibilities.

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:

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title IX Pregnancy Accommodations, CARE Team, and Campus Concealed Carry, please visit https://www.southplainscollege.edu/syllabusstatements/.