

South Plains College

Common Course Syllabus: **AGRI 1419**

Revised FALL **2021**

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: 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. You will see an example in week 1 content in Blackboard. If you have any issues signing up for iCEV, please call 806-745-8820.

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 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: 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

4 Exams: 80 % each

Weekly lab 20%

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 in order 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 of time 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 in 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 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 student's;
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: Assessment will be by written exam questions related to these methods.

- 1. Demonstrate knowledge of the scientific method and to contrast it with other ways of understanding the world.**

This course is set up to expose students to how the basic sciences impact animal agriculture throughout the world. The basis of the course is that students are exposed to Animal Science as a science and are required to understand Chemistry, Physiology, Biology, Genetics and Nutrition and how each is integrally a part of a normally functioning animal.

- 2. Demonstrate knowledge of the tools and methods used by scientists to study the natural world.**

AGRI 1419 students are exposed to many current and past scientific methodologies. It is important that our students understand the early methods as well as improvements that have been made due to advances in the analytical sciences.

- 3. The Biological Sciences of Animal Sciences**

Students should understand nutrient digestion, the role of microbes in polysaccharide digestion and the factors that influence carbohydrate metabolism. Significant time is spent learning about the fundamental principles of genetics, inheritance and the role of natural selection on animal adaptability to the environment. Students will also be exposed to embryology and understand the complex relationship of the fetus to the dam during gestation. They will also understand the area of animal growth and the many factors that influence the rate of growth as well as body composition differences that can be influenced by nutrition and hormones.

4. Animals and Society

Many of the topics covered in the course have direct application to society and ethics concerning both humans and animals. A major goal of ANSC 1401 is to inform students of the symbiotic relationship that exists between man and animals. The role of animals in the progression of mankind is significant. Students should understand that both man and animal have benefited from this relationship. The role of animal products in the diet of man is examined and discussed.

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:

Diversity Statement: In this class, the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

Disability 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.

Nondiscrimination Policy: South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

Title IX Pregnancy Accommodations Statement If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To [activate](#) accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Director of Health and Wellness at 806-716-2362 or [email cgilster@southplainscollege.edu](mailto:cgilster@southplainscollege.edu) for assistance.

Campus Concealed Carry: Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.php> Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

COVID Statement:

If you are experiencing any of the following symptoms please do not attend class and either seek medical attention or get tested for COVID-19.

- Cough, shortness of breath, difficulty breathing
- Fever or chills
- Muscles or body aches
- Vomiting or diarrhea
- New loss of taste and smell

Please also notify DeEtte Edens, BSN, RN, Associate Director of Health & Wellness, at dedens@southplainscollege.edu or 806-716-2376.