Sul Ross State University
ANSC 4306 Control of Domestic and Wildlife Diseases
Fall 2025

Instructor:
Dr. Jamie Boyd
Associate Professor
Office: RAS 107
Phone: 432-837-8413
Email: Jamie.boyd@sulross.edu
Office Hours: TH 9:30-12
F 9-12 or by appointment

Lecture: TH 8-9:15am
Location: RAS 135

Course Description: Introduction to the basic principles of epidemiology with special reference to the pathogens of disease in the animal population: description of the role of the animal scientist, veterinarian, and farm manager in managing and controlling disease.

Recommended Text: Merck Veterinary Manual, 11th edition (**strongly recommended**)

Purpose of the course: The course is designed to introduce students to a basic understanding of common diseases in animals. Content will include the pathology of specific diseases their cause and also treatment.

Student learning outcomes:

1. Understanding common diseases seen in livestock species.
2. Introduction to common diseases of wildlife species in the area.
3. Pathologies and symptoms seen in common diseases.
4. Treatment of diseases discussed as well as vaccination schedules.

Departmental Projected Learning Outcomes:

Student will demonstrate that he/she is able to:

1. Demonstrate the basic skills of interpreting research data gathered in an agricultural context,
2. Apply critical thinking skills to mitigate potential challenges in diverse animal sciences and related agricultural industries,
3. Develop problem solving skills, and
4. Demonstrate the ability to communicate through written, spoken, and graphical methods.

Course Design: Communication Infused

.

To be successful in college and beyond, many sources (e.g., Morrealle & Pearson, 2008) indicate that communication competencies are essential. Sul Ross recognizes that it is vital that the current generation of undergraduate university students receive the required training to be able to navigate a global world and be competent in various contexts and channels of communication.

Through our Quality Enhancement Plan (QEP) called *Compass: Navigating Excellence through Effective Communication*, Sul Ross aims to equip you to develop your written, oral, and visual communication skills across multiple courses. Therefore, this QEP Mapped Course contains both programmatic and QEP student learning outcomes.

QEP Student Learning Outcomes:

- SLO1: The student will demonstrate effective development and expression of ideas in writing.
- SLO2: The student will exhibit skill in prepared, purposeful oral communication of material or concepts.
- SLO3: The student will create and deliver visual works that facilitate audience understanding of a central message or purpose.

Assessment measures: At the end of this course, students should have a basic understanding of the concepts and principles of animal anatomy and physiology. Each student's success of achieving these results will be based on a minimal of 60% or better on all exams, quizzes, and other assignments.

Recommendations for Success: In order to succeed in this class, I recommend that you dedicate at a minimum two hours of study time per class hour each week. The material covered in this course cannot be learned adequately in only a couple days, it is cumulative and each day's material will build on the previous day.

Accommodations:
It is the SRSU policy to provide reasonable accommodations to students with disabilities. If you would like to seek any accommodations for this course, please contact Mary Schwartze at the Counseling and Accessibility Services Office: Ferguson Hall 112 phone: (432) 837-8203 as soon as possible to ensure that such accommodations are implemented in a timely fashion

Academic integrity: Students are expected to submit original work without unauthorized assistance. Academic dishonesty, which includes cheating, unauthorized collaboration, plagiarism, fabrication, multiple submissions, and aiding and abetting, will result in a grade of 0 on the work in question. Subsequent instances of academic dishonesty may result in more serious sanctions.

Cell phone use during class is prohibited. It is a distraction to you and your classmates, please your phone in a bag or on your desk during class.

Examinations and grading: The grade you earn is your responsibility! **There will be no extra-credit opportunities.** Your course grade will be based on the following components:

Exams and Quizzes: There will be four exams administered in class throughout the semester. The dates of the exams are noted on the syllabus. The fourth exam will be a comprehensive final exam. There will also be 7 quizzes throughout the semester. Quizzes will be scheduled on a weekly basis. There will be no make-up exams or quizzes without prior approval or a valid doctor's excuse. You must talk to me "live". Voice or email messages are not considered valid excuses.

Case Studies: Case studies will be provided via blackboard. The assignments will contain pertinent information about a pathology of an animal. Students will research the symptoms and provide an explanation as to the potential cause of the pathology and if possible treatment options, survivability and long term prognosis. **Responses should be 1-2 pages typed and will be submitted via Blackboard. No email responses will be accepted.**

Term Paper: Students will be required to write a 6-10 page scientific term paper on a unique topic of their choice relating to a metabolic or health disorder in animals. There will be several small assignments throughout the course to assist you with the preparation, organization, and completion of the term paper assignment. Additional handouts on assignment requirements, grading criteria, and helpful tips will be provided throughout the semester. Each student will submit a topic, outline with references, rough draft, 2 peer reviews, final draft, summary, and short presentation (8-10 minutes). Late rough draft and peer review assignments will not be accepted and will result in a zero on these assignments. Late rough drafts will not be peer reviewed and the student will not be able to complete the peer review assignment, resulting in a zero on the assignment.

Other Considerations: Exams may include multiple choice, fill in the blank, short answer, identification, diagrams, and matching questions. Common abbreviations for terms may be used on exams, quizzes, and assignments after the abbreviation has been defined by using the complete term once. Cell phones, internet capable watches, and programmable calculators are not permitted during exams or quizzes. This class may include dissections. Students uncomfortable with this concept should speak to me as soon as possible. The final exam is comprehensive (non-negotiable). Due dates for all assignments will be announced in class or on the attached class schedule. **Late assignments will be accepted for 4 days following the initial due date and time with a 20% penalty per day late.**

Points available:

3 1 hour exams (100 pts each)	300 points
6 quizzes (10 pts each)	60 points
Other assignments/quizzes (variable points) *	? points
Case Studies (2 @ 50pts each)	100 points
Term Paper and associated assignments	235 points
Comprehensive Final Exam	200 points
Total	**860-? Points**

Grading scale: (% of total class points)
A = 90-100%
B = 80-89.99%
C = 70-79.99%
D = 60-69.99%
F = 59.99% or below

Schedule of class sessions: This information should be treated as an outline. There may be some alterations in the sequence of topics.

Weekly Quizzes are indicated below with (*)

Date	**Lecture (Chapter)**
Aug 26-28	Introduction and Terminology Terminology
Sept 2-4	Types of Diseases
9*-11	Immunity
16-18	**Exam 1 16th**
23-25*	Disease Diagnosis and Control No class on the 25th **(Quiz on Blackboard)**
30-Oct 2	Management Systems and Disease Control
Oct 7*-9	Treatment and Control of Disease and Laws
14-16*	Shock **Exam 2-21st**
21-23	Parturition/Newborn Diseases
28-30	Digestive/Metabolic Diseases

4-6*	Respiratory Diseases
11-13	**Exam 3-13th**
18-20	Rabies
25*-28	**Quiz on Blackboard** Thanksgiving Holiday
Dec 2	Wrap-up/review (Last Day of Class)

Comprehensive Final Exam -TBA

Dates to Remember:

Fri, Oct 31st (midnight) - Case Study 1 due on Blackboard
Tuesday, Dec 2nd (midnight) - Case Study 2 due on Blackboard

Instructor's bibliography:

Merck's Veterinary Manual 11th Edition. 2016. Merck & Co., INC.
Veterinary Anatomy and Physiology. A clinical laboratory manual. 2nd edition. 2011. Cochran. Delmar Publishing.
Ruminant Anatomy: A Photo Atlas. 2013. Dunn. Clemson University.
Medical Physiology. Guyton. W.B. Saunders. Publishing