

**Sul Ross State University**  
**ANSC 4306**  
**Control of Domestic and Wildlife Diseases**  
**Fall 2018**

**Instructor:**

Dr. Jamie Boyd  
Assistant Professor  
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Office Hours: 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, 11<sup>th</sup> 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.

**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 Schwartz 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 9 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 5-10 page scientific term paper on a unique topic of their choice relating to a metabolic or health disorder. 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. 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.

**Journal Writing:** Each student will be required to keep a journal to summarize each class session and complete other assignments. Further instructions for journal assignments will be given throughout the semester. Journals will be turned in for review by the instructor on a biweekly basis.

**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
8 quizzes (10 pts each)	80 points
Journals	30 points
Other assignments/quizzes (variable points) *	? points
Case Studies (2 @ 50pts each)	100 points
Term Paper and associated assignments	200 points
<u>Final Exam</u>	<u>150 points</u>
<b>Total</b>	<b>875-? Points</b>

**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.

**Scheduled Weekly Quizzes are indicated below with (\*)**

**Journal Due Date \*\***

<u>Date</u>	<u>Lecture (Chapter)</u>
Aug 28 30	Introduction and Terminology Terminology
Sept 4* 6	Types of Diseases Immunity
11* ** 13	Immunity Immunity
18 20	Library Lab-Paper/Review <b>Exam 1</b>
25* 27	Disease Diagnosis and Control
Oct 2* ** 4	Management Systems and Disease Control
9* 11 **	Treatment and Control of Disease and Laws Shock
16 18	Lab Class Physical exams/ Review <b>Exam 2</b>
23* 25	Parturition/Newborn Diseases
30* Nov 1**	Digestive/Metabolic Diseases
Nov 6 8	<b>Exam 3</b>
13 15**	Respiratory Diseases

20\* Wildlife Diseases  
22 No class-Thanksgiving!

27\* \*\* Class Presentations  
29 Class Presentations

Dec 4 Wrap-up and Review

**Dec ? Final exam**

**Dates to Remember:**

**Wed, Oct 31 (midnight) - Case Study 1 due on Blackboard**

**Fri, Nov 30 (midnight) - Case Study 2 due on Blackboard**

**Instructor's bibliography:**

Merck's Veterinary Manual 11<sup>th</sup> Edition. 2016. Merck & Co., INC.

Veterinary Anatomy and Physiology. A clinical laboratory manual. 2<sup>nd</sup> edition. 2011. Cochran. Delmar Publishing.

Ruminant Anatomy: A Photo Atlas. 2013. Dunn. Clemson University.

Medical Physiology. Guyton. W.B. Saunders. Publishing