ANSC 3410 Anat & Phys Dom Animals

Spring 2024 | Lecture MW 09:30 AM - 10:45 AM | Laboratory W 01:00 PM – 02:50 PM

Alpine Campus | Range Animal Science | Rooms 135 (lecture) & 132 (laboratory)

Instructor Information

Instructor	Contact	Office Location & Hours
Dr. Hugo Santos	Email: hugo.santos@sulross.edu Phone: 432-837-8210	RAS 108 - MW, 11pm – 1pm or by appointment

General Information

Description

This course will teach the principles of anatomy and physiology of domestic animals and how individual body systems impact overall health. Students will learn topics on body parts, cell biology and organ systems and total body interactions.

Expectations and Goals

The course is designed to introduce students to key aspects of animal anatomy and physiology through understanding the function and interaction of systems and body parts.

Student learning outcomes:

1. Knowledge of domestic animal anatomy and physiology at the introductory level
2. Ability to discuss species differences as related to various organ systems structure and function
3. Understanding of integration of organ systems in the function of the total body
4. Ability to critically assess scientific literature in the field of animal physiology

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
4. Demonstrate the ability to communicate through written, spoken, and graphical methods.

Quality Enhancement Plan (QEP) Student Learning Outcomes:

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

SRSU Library Services

The Sul Ross Library offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library's website, library.sulross.edu. Off-campus access requires logging in with your LoboID and password. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or phone (432-837-8123).

Reasonable Accommodation Statement

It is the SRSU policy to provide reasonable accommodation to students with disabilities. Accessibility services support for students with physical and psychological disabilities are available at Ferguson Hall 112. To make an appointment regarding disability accommodations, please call 432-837-8203.

Anti-Discrimination Statement

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored by Sul Ross State University on any basis prohibited by applicable law, including but not limited to race, color, national origin, religion, sex, age, disability, sexual orientation, or gender identity.

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.

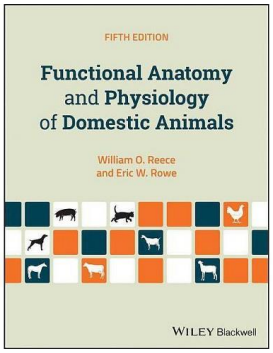
Late Work

It is expected that all assignments will be submitted on time. Valid absences include: 1) medical emergencies with a signed note from a doctor; 2) participation in a SRSU- sanctioned activity with a letter from faculty advisor; or 3) other emergencies or conflicts that are allowed at the professor's discretion. Students are expected to make up missed work within a week of the original due date. Late assignments will be accepted for 4 days following the initial due date and time with a 20% penalty per day late.

Required Text

There are NO required textbooks for this course.

Optional: Reece, William, O. and Eric W. Rowe. *Functional Anatomy and Physiology of Domestic Animals*. (4th or 5th Edition). Wiley Global Research (STMS), 2017.



Grading

Your course grade will be based on the following components:

Lecture Assignments: Reading material and activities will be given throughout the semester to complement the topics taught in class. It may include quizzes, discussions, critical article reviews, and presentations. Assistance and guidelines on when and how to complete each assignment will be given throughout the semester.

Laboratory assignments: Labs will be held on a weekly basis to supplement the course learning and will include completion of booklets during the lab time, oral presentations and some degree of dissection will also be part of your lab (please notify me within the first week if this is an issue for you). Attendance at labs is mandatory unless you have received prior approval or a valid doctor's excuse.

Exams: There will be five exams throughout the semester, including the final. The Final Exam will be comprehensive. There will be no make-up exams without prior consultation with the course instructor.

Points available

Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Exam 4	100 points
Final	100 points
Lecture assignments	150 points
Laboratory assignments	150 points
Total	**800 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%

Tentative Course Schedule

Lecture	Topic	Reference chapter
17-Jan	Introduction, Structures and Function	Chapter 1
22-Jan	Bones, Joints and Synovial Fluid	Chapter 7
24-Jan	Bones, Joints and Synovial Fluid	
29-Jan	Muscle Physiology	Chapter 8
31-Jan	Muscle Physiology	
5-Feb	**Exam 1 Review ***	
7-Feb	**Exam 1**	
12-Feb	Hematology	Chapter 3
14-Feb	Hematology	
19-Feb	Cardiovascular System	Chapter 9
21-Feb	Cardiovascular System	

26-Feb	Respiratory System	Chapter 10
28-Feb	Respiratory System	
4-Mar	**Exam 2 Review**	
6-Mar	**Exam 2**	
11-Mar	**Spring break: No Class**	
13-Mar	**Spring break: No Class**	
18-Mar	Endocrinology	Chapter 6
20-Mar	Endocrinology	
25-Mar	Neurophysiology *	Chapter 4
27-Mar	Neurophysiology *	
1-Apr	**Exam 3 Review**	
3-Apr	**Exam 3**	
8-Apr	Urinary Physiology	Chapter 11
10-Apr	Urinary Physiology	
15-Apr	Digestive Physiology	
17-Apr	Digestive Physiology	Chapter 12
22-Apr	**Exam 4 Review**	
24-Apr	**Exam 4**	
29-Apr	Reproductive Physiology	Chapters 14-15
1-May	Reproductive Physiology	
3-8-May	**Final Examinations**	

Laboratory schedule will be presented weekly to match lecture needs.

Subject to Change

This syllabus and schedule are subject to change at the discretion of the instructor. You will be provided information in advance. If you are absent from class, it is your responsibility to check on announcements made while you were absent.