

ANSC 3410 Anat & Phys Dom Animals

Spring 2023 | Lecture MWF 10:00 AM - 10:50 AM | Laboratory T 03:00 PM – 04:40 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, 12pm – 2pm 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.

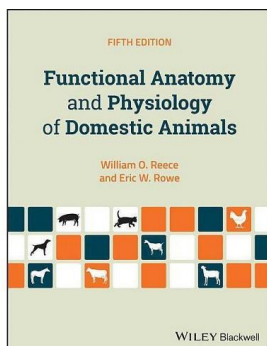
Late Work

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:

Quizzes: There will be 6 quizzes on the material discussed in lectures throughout the semester. Quizzes will be given during classes after a short review section.

Critical Article Review: Students will be required to write a 2–3 pages research paper review on a unique topic of their choice relating to anatomy and/or physiology. The review should include context, the goal of the study, how the research was conducted, what their results indicate and a personal critical statement on the quality and relevance of the study. Reviews should be typed (12 pt. Times New Roman font, double spaced) and submitted via Blackboard. Assistance and guidelines on how to complete the 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 (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. Additional assignments may be given during the semester. 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
Exam 5 - comprehensive	150 points
Critical Article Review	80 points
Quizzes	120 points
Laboratory assignments	150 points
Total	900 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

Week	Topic	Reference chapter	Assignment Due
01/18	Introduction, Structures and Function	Chapter 1	
01/20	Structures and Function		
01/23	Bones, Joints and Synovial Fluid	Chapter 7	
01/25	Bones, Joints and Synovial Fluid		
01/27	Bones, Joints and Synovial Fluid		
01/30	Review Day & Quiz 1		Quiz 1

02/01	Muscle Physiology	Chapter 8	
02/03	Muscle Physiology		
02/06	Exam 1 Review		
02/08	Exam 1		Exam 1
02/10	Hematology	Chapter 3	
02/13	Hematology		
02/15	Cardiovascular System	Chapter 9	
02/17	Cardiovascular System		
02/20	Cardiovascular System		
02/22	Review Day & Quiz 2		Quiz 2
02/24	Respiratory System	Chapter 10	
02/27	Respiratory System		
03/01	Respiratory System		
03/03	Exam 2 Review		
03/06	Exam 2		Exam 2
03/08	Endocrinology	Chapter 6	
03/10	Endocrinology		
03/13	Spring break: No Class		
03/15	Spring break: No Class		
03/17	Spring break: No Class		
03/20	Endocrinology		
03/22	Endocrinology		
03/24	Review Day & Quiz 3		Quiz 3
03/27	Neurophysiology	Chapter 4	
03/29	Neurophysiology		
03/31	Neurophysiology		
04/03	Neurophysiology		
04/05	Review Day & Quiz 4		Quiz 4
04/07	Good Friday holiday		
04/10	Exam 3 Review		
04/12	Exam 3		Exam 3
04/14	Urinary Physiology	Chapter 11	
04/17	Urinary Physiology		
04/19	Review Day & Quiz 5		Quiz 5
04/21	Digestive Physiology	Chapter 12	
04/24	Digestive Physiology		
04/26	Exam 4 Review		
04/28	Exam 4		Exam 4
05/01	Reproductive Physiology	Chapters 14-15	

05/03	Reproductive Physiology		
05/05	Review Day & Quiz 6		Quiz 6
05/08	Flex Day		
05/10	Exam 5 Review		
05/12-17	Final Examinations		Final

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.