

ANSC 3311 Anat & Phys Dom Animals

Spring 2022 MWF 11:00 AM - 11:50 AM

Alpine Campus | Range Animal Science | Room 00130

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 an up to 30min review section.

Critical Article Review: Students will be required to write a 2–4 page research paper review on a unique topic of their choice relating to anatomy and/or physiology. The review should include the goal of the study, how it conducted the research, what their results indicate and a critical review on how the

research was carried out and interpreted. Reviews should be typed (12 pt. Times New Roman font, double spaced) and submitted via Blackboard. No email responses will be accepted. 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 some degree of dissection (please notify me within the first week if this is an issue for you). You will be required to complete booklets during the lab time and hand it in at the beginning of the following Monday before lecture. Attendance at labs is mandatory unless you have received prior approval or a valid doctor's excuse.

Exams: There will be three 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
Final Exam - comprehensive	200 points
Critical Article Review	100 points
Quizzes	120 points (20 points each)
Laboratory assignments	130 points (10 points each)
Total	750 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	Chapter	Assignment Due
01/10	Introduction, Structures and Function	Chapter 1	
01/12	Structures and Function		
01/14	Neurophysiology	Chapter 4	
01/17	MLK Day - No Class		
01/19	Neurophysiology		
01/21	Neurophysiology		
01/24	Neurophysiology		Lab#1 Due
01/26	Review Day Quiz 1		Quiz 1
01/28	Endocrinology	Chapter 6	
01/31	Endocrinology		Lab#2 Due
02/02	Endocrinology		
02/04	Endocrinology		
02/07	Review Day		Lab#3 Due

	Quiz 2		Quiz 2
02/09	Bones, Joints and Synovial Fluid	Chapter 7	
02/11	Bones, Joints and Synovial Fluid		
02/14	Bones, Joints and Synovial Fluid		Lab#4 Due
02/16	Review Day Quiz 3		Quiz 3
02/18	Muscle physiology	Chapter 8	
02/21	Muscle physiology		Lab#5 Due
02/23	Review Day Quiz 4		Quiz 4
02/25	Flex Day		
02/28	Exam 1 Review		Lab#6 Due
03/02	Exam 1		EXAM 1
03/04	Hematology	Chapter 3	
03/07	Spring break: No Class		
03/09	Spring break: No Class		
03/11	Spring break: No Class		
03/14	Hematology		Lab#7 Due Critical Article Review Due
03/16	Cardiovascular System	Chapter 9	
03/18	Cardiovascular System		
03/21	Cardiovascular System		Lab#8 Due
03/23	Review Day Quiz 5		Quiz 5
03/25	Respiratory System	Chapter 10	
03/28	Respiratory System		Lab#9 Due
03/30	Respiratory System		
04/01	Exam 2 Review		
04/04	Exam 2		Lab#10 Due EXAM 2
04/06	Urinary Physiology	Chapter 11	
04/08	Urinary Physiology		
04/11	Digestive Physiology	Chapter 12	Lab#11 Due
04/13	Digestive Physiology		
04/15	Good Friday: No Class		
04/18	Review Day Quiz 6		Lab#12 Due Quiz 6
04/20	Reproductive Physiology	Chapters 14-15	
04/22	Reproductive Physiology		

04/25	Final Exam Review		Lab#13 Due
04/29	Final Exam - comprehensive		FINAL EXAM

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.