

ANSC 2310
Anatomy and Physiology
Fall 2016

Instructor:

Dr. Jamie Boyd

Assistant Professor

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Office Hours: M, W, F: 9-11

M, W :1-3

or by appointment

Lecture: TR 9:30-10:45am

Location: RAS 137

Course description: General principles of anatomy and physiology of farm animals, emphasizing ruminant and equine digestive physiology.

Recommended Text: Functional Anatomy and Physiology of Domestic Animals. 4th edition. 2009. Reece, Wiley-Blackwell.

Purpose of the course: The course is designed to introduce students to the basic and fundamental concepts of domestic animal anatomy and physiology. By learning and understanding fundamental concepts, students will be able to apply this knowledge to other advanced Animal Science courses.

Student learning outcomes:

1. Students will demonstrate knowledge of domestic animal anatomy and physiology at the introductory level.
2. Be able to discuss species differences as related to various organ systems structure and function.
3. Understand the integration of organ systems in the function of the total body.

Departmental Projected Learning Outcomes:

1. Apply livestock management techniques to the care and sustainable management of domestic and captive animals.
2. Demonstrate the basic skills of interpreting information gathered in a research setting.
3. Apply critical thinking skills to deal with potential challenges in diverse animal sciences and related industries.
4. Develop problem solving skills, 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.

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 physiological 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.

Physiology in the News: Select either a popular press source or newsworthy publication in which an article on animal physiology is published. Write a 1.5 to 2-page review of this article, where you provide a short introduction, a summary of what the article says and then a paragraph of your thoughts and opinions on the topic or research presented in the article. Below you will find the rubric that will be used in grading your papers, so please briefly review this before you write your first review. You are not required, but are encouraged to utilize other reference material in your article review. **The review will be due in class on the designated date. You must also staple a copy of the original article to your review for submission.**

Rubric:

- Clearly and effectively respond to the assignment (10pt)
- Demonstrate a thorough understanding and interpretation of the article by summarizing and addressing relevant questions raised by the article (5pt)
- Introduction (5pt)
- Body of the summary (15pt)
- Conclusion (10pts)
- Correct grammar, word usage, spelling, and punctuation (5pt)

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
Other assignments/quizzes (variable points) *	? points
Case Studies (2 @ 50pts each)	100 points
Physiology in the News (2 @ 50pts each)	100 points
<u>Final Exam</u>	<u>150 points</u>
Total	730-? 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 will be some alterations in the sequence of topics.

Scheduled Weekly Quizzes are indicated below with (*)

<u>Date</u>	<u>Lecture (Chapter)</u>
Aug 23 25	Introduction (1) Epithelial tissue (1)
30* Sept 1	Connective tissue (1)
6* 8	Endocrine system (6)
13 15	Exam 1 Nervous system (4)
20* 22	Skeletal system (7)
27* 29	Joints (7)
Oct 4* 6	Physiology in the News 1- due Muscle (8)

13	Exam 2
18*	Hematology (3)
20	Cardiovascular system (9)
25*	
27	Respiratory system (10)
Nov 1	
3	Exam 3
8	Urinary system (11)
10	
15*	Digestive systems (12)
17	
22*	Physiology in the News 2- due
24	Thanksgiving!
29	Review and Wrap-up
Dec 5	8-10am Final exam

Dates to Remember:

Monday, Aug 22- First day of classes
 Thursday, Aug 25- Last day for schedule changes or late registration
 Wednesday, Sept 7- Last day to drop a 16wk class w/o creating an academic record
 Friday, Sept 16- Last day to apply for December graduation w/o a late fee
Mon, Oct 31 (midnight)- Case Study 1 due on Blackboard
 Friday, Nov 11 (4pm)- Last day to drop a 16wk course with a grade of "W"
Tues, Nov 29 (midnight)- Case Study 2 due on Blackboard
 Friday, Dec 9- Fall Commencement 7pm

Instructor's bibliography:

Anatomy and Physiology of Farm Animals. 7th edition. 2009. Frandson, Wilke, and Fails. Wiley-Blackwell.
 Veterinary Anatomy and Physiology. A clinical laboratory manual. 2nd edition. 2011. Cochran. Delmar Publishing.
 Introduction to Anatomy and Physiology. 2012. Rizzo. Delmar Publishing.
 Principles of Animal Physiology. 2nd edition. 2008. Moyes and Schulte. Pearson Education, Inc.
 Seely's Anatomy and Physiology. 10th edition. 2013. Vanputte, Regan, and Russo. McGraw-Hill.

Spurgeon's Color Atlas of Large Animal Anatomy. 2006. McCracken, Kainer, and Spurgeon. Wiley-Blackwell.

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

Companion Animal Anatomy: A Photo Atlas. 2014. Dunn. Clemson University.