



ANS 513 01E (CRN 83698): Environmental Physiology of Domestic Animals

COURSE SYLLABUS: Fall 2025

Meeting Times: Tues/Thurs 12:30pm – 1:45pm (Lecture)

Meeting Location: SS 311

INSTRUCTOR INFORMATION

Instructor: Dr. Brooke Clemmons

Office Location: AG/IT 233B

Office Hours: by appointment

University Email Address: Brooke.Clemmons@tamuc.edu

Preferred Form of Communication: **email**

Communication Response Time: 48 business hours (I respect your weekends and holidays – please respect mine)

COURSE INFORMATION

Textbook(s) Required: none

Software Required: Microsoft Office Suite, Adobe Acrobat

Course Description

Principles of environmental physiology and animal adaptation with emphasis on mechanisms of temperature regulation and related nutritional and metabolic-hormonal functions.

The syllabus/schedule are subject to change.

Student Learning Outcomes

1. Explain and analyze the physiological principles underlying environmental adaptation in domestic animals, with emphasis on thermoregulation, metabolic regulation, and endocrine control.
2. Evaluate the interactions among environmental stressors (e.g., heat, cold, humidity, altitude) and animal physiological responses, integrating knowledge of nutrition, metabolism, and hormonal regulation.
3. Apply advanced concepts of environmental physiology to predict animal performance, health, and welfare under diverse production systems and climatic conditions.
4. Critically assess current research literature in environmental physiology, identifying strengths, limitations, and future directions in the field.
5. Design and propose experimental approaches to investigate physiological mechanisms of adaptation in domestic animals, including hypotheses, methodologies, and expected outcomes.
6. Synthesize knowledge of physiology, nutrition, and endocrinology to develop evidence-based management strategies for mitigating environmental stress in livestock systems.
7. Communicate scientific findings effectively through written reports, oral presentations, and data interpretation relevant to environmental physiology and animal adaptation.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Students will need to be able to access and use the course online platform for the University, D2L. They will also need to have access and be able to use Microsoft Word, PowerPoint, and other components of the Microsoft Office Suite.

Instructional Methods

This course will be offered as a blended course. Lectures will be provided live both virtually and in person. Additionally, all lectures will be recorded and provided on the D2L system shortly after the lecture period. All assignments and exams will be listed in D2L. Additional information about exams and assignments will be provided prior to the upload of those assignments.

Student Responsibilities or Tips for Success in the Course

In order to be successful in the course, students will need to ensure that they **actively** participate in the course, including any in-person or online activities or discussions; thus attendance and completion of assignments is paramount. A good rule of thumb is that students should spend approximately 2-3 hours outside of class on the course material for every hour of face-to-face meeting time. If you have any questions at all regarding the course structure, material, or anything else related to the course, feel free to post the question on the discussion forum on D2L or email the instructor. I can't help you if you don't ask for help!

The syllabus/schedule are subject to change.

GRADING

Final grades in this course will be based on the following scale:

A = 90%-100% (900 to 1000 pts)

B = 80%-89% (800 to 899 pts)

C = 70%-79% (700 to 799 pts)

D = 60%-69% (600 to 699 pts)

F= 59% or Below (< 600 pts)

Assignment	Point Value	Due Date
Exams	600	Throughout course
Poster	100	2/26/2021
Journal article critique	150	3/26/2021
Research paper	150	4/23/2021
Total	1000	

Assessments

All assessments and grading are presented in the above table. Assessments will include primarily class discussions, but will also include assignments throughout the semester. You will be graded on a combination of participation and assignments/projects.

Assignments: Students will be given assignments throughout the semester. See above for major due dates. Specifics of assignments will be provided in class and on D2L. discussions in the class or online, or other activities as assigned by the instructor.

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

The syllabus/schedule are subject to change.

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection problems **do not excuse the requirement to complete all course work in a timely and satisfactory manner**. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

Interaction with Instructor Statement

The BEST way to contact me is via email, and I will make every effort to return emails within 48 business hours. If I do not respond within this timeframe, please feel free to follow up with me.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Your participation is required and expected for success in the course. In the event that you are unable to submit assignments on time, please let the instructor know **prior** to the assignment deadline and as soon as possible. Late homework/assignments will be accepted with a 10% penalty each day the assignment is late (including weekends) up to 50%. Late work will not be accepted after 7 days after the assignment due date without prior approval. Exams must be taken during the designated timeframe unless the student has a university-approved excuse.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

The syllabus/schedule are subject to change.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: <https://www.britannica.com/topic/netiquette>

A&M-Commerce requires the use of face-coverings in all instructional and research classrooms/laboratories. Exceptions may be made by faculty where warranted. Faculty have management over their classrooms. Students not using face-coverings can be required to leave class. Repetitive refusal to comply can be reported to the Office of Students' Rights and Responsibilities as a violation of the student Code of Conduct.

Students should not attend class when ill or after exposure to anyone with a communicable illness. Communicate such instances directly with your instructor. Faculty will work to support the student getting access to missed content or completing missed assignments.

TAMUC Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

[Graduate Student Academic Dishonesty 13.99.99.R0.10](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

The syllabus/schedule are subject to change.

Students with Disabilities--ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Gee Library- Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@tamuc.edu

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

Nondiscrimination Notice

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

The syllabus/schedule are subject to change.

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

RECOMMENDED COURSE OUTLINE / CALENDAR

Date	Topic	Assignments
8/26/2025	Intro to Course/Syllabus	
8/28/2025	Cellular Physiology I	
9/2/2025	Cellular Physiology II	
9/4/2025	Cellular Physiology III	
9/9/2025	Autonomic Nervous System I	
9/11/2025	Autonomic Nervous System II	
9/16/2025	Exam 1	
9/18/2025	Neurophysiology I	
9/23/2025	Neurophysiology II	
9/25/2025	Neurophysiology III	
9/30/2025	Cardiovascular Physiology I	
10/2/2025	Cardiovascular Physiology II	
10/7/2025	Exam 2	Poster due
10/9/2025	Respiratory Physiology I	
10/14/2025	Respiratory Physiology II	
10/16/2025	Renal Physiology I	
10/21/2025	Renal Physiology II	
10/23/2025	Renal Physiology III	
10/28/2025	Exam 3	Journal Critique due
10/30/2025	Acid-Base Physiology	
11/4/2025	Gastrointestinal Physiology I	
11/6/2025	Gastrointestinal Physiology II	
11/11/2025	Endocrine Physiology I	
11/13/2025	Endocrine Physiology II	
11/18/2025	Endocrine Physiology II	
11/20/2025	Exam 4	
11/25/2025	No Class	Enjoy your Thanksgiving Break!
11/27/2025	No Class	Enjoy your Thanksgiving Break!
12/2/2025	Reproductive Physiology I	
12/4/2025	Reproductive Physiology II	Research Paper due (12/5)
12/11/2025	Final Exam	10:30am – 12:30pm

The syllabus/schedule are subject to change.