



Reproductive Physiology of Domestic Animals
ANS 311.01E
Spring 2025

Lecture: 8:00-9:15
Location 238 AG/ET

Lab: R 1:00-2:50 / ANS LAB

INSTRUCTOR INFORMATION

Instructor: **Dr. Douglas Eborn**
Office Location: **AG/ET 233D**
Office Hours: **MTF 1:00-3:00**
Office Phone: **903.886.5676**
Office Fax: 903.886.5990
University Email Address: **Douglas.Eborn@tamuc.edu**
Preferred Form of Communication: **Email**
Communication Response Time: **24 hours**

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Required Textbook: Pathways to Pregnancy and Parturition (3rd Ed).
P.L. Senger. Current Conceptions. ISBN - 0965764834

Note: There are many differences between the 2nd and 3rd editions. If you choose to use the 2nd revised edition, it is solely your responsibility to make note of differences between the texts and differences in figures and tables.

Course Description

The syllabus/schedule are subject to change.

Prerequisites: ANS 1319 Introduction to Animal Science
 BSC 1407: Introductory Biology II
 Chem 1311: General Chemistry

Comparative anatomy and physiology of the male and female reproductive systems of domestic animals, endocrinology of reproduction, gestation and parturition.

This is a 3-semester hour course (2-hour lecture; 2-hour lab) that covers anatomy, physiology, and endocrinology pertaining to reproduction in cattle, pigs, small ruminants, horses, and poultry. This course will cover basic concepts and principles that will be expanded to include reproductive management decisions and proper use of reproductive technologies.

Student Learning Outcomes

Students successfully completing the course should be able to:

1. Identify both male and female structures of the reproductive system and describe their function.
2. Describe how reproduction is controlled including the role and regulation of hormones.
3. Describe the events, structures, and hormones involved in the estrous cycle leading up to both ovulation and luteolysis.
4. Understand the events surrounding both oogenesis and spermatogenesis
5. Know how pregnancy is established and maintained in the different farm animal species followed by the events leading to parturition.
6. Understand how to use current applied reproductive technologies including estrous synchronization, artificial insemination, and embryo transfer and make good reproductive management decisions.

COURSE OVERVIEW

Course material

The material for this course will be primarily given by PowerPoint lectures. PDF copies of those lectures will be made available to students either before or after the lecture.

COURSE SPECIFIC PROCEDURES/POLICIES

The syllabus/schedule are subject to change.

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.

Attendance/Lateness

Attendance is expected and will be taken at the beginning of class. Future opportunities such as potential extra credit assignments may be based on attendance.

Grading

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

Exams – 50%	A = 90%-100%
Labs – 25%	B = 80%-89%
Quizzes - 15%	C = 70%-79%
Homework = 10%	D = 60%-69%
	F = 59% or Below

Assessments

1. Exams

- Four lecture exams and one lab exam will be given throughout the semester including the comprehensive final.

Tentative Dates:

- 1) February 6th
 - 2) March 6th
 - 3) April 11th
 - 4) May 1st (Lab exam)
 - 5) Final: May 6th 8:00 A.M.
- Exam formats may include T/F, matching, multiple choice, fill in the blank, and short answer.
 - All students are to take the exams at the time they are scheduled.
 - All students are to take the exams at the time they are scheduled unless you have a great excuse or made prior arrangements with the instructor. If an exam is given at a different time, an alternative makeup exam may be more difficult, not easier, for the student.

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2. Quizzes

- Quizzes will be given **weekly** throughout the semester.
 - Quizzes will be due on each Friday of the week.
 - Quizzes will be taken either in class or through D2L in myleonline.com.
 - No late work will be accepted for quizzes!!
 - 1-2 quizzes will be dropped from the grade book at the end of the semester.
 - Unannounced quizzes may also occur throughout the semester

3. Homework

- Homework assignments may be given in addition to the quizzes.
 - Late work may be turned in for 50% reduction for up to 3 days after the due date.

4. Labs

- Attendance points will be given each lab and will count towards your final grade. Additional homework may be given with each lab.

5. Late Work, Missed Exams

- All students are to take the exams at the time they are scheduled unless you have a great excuse or made prior arrangements with the instructor. If an exam is given at a different time, an alternative makeup exam may be more difficult, not easier, for the student.
- The student must take responsibility to notify the instructor in a timely matter for consideration and accommodation due to school activities, emergencies, or other circumstances. Validation may be required.

TENATIVE SCHEDULE

Date	Day	Lecture Topics	Lab Topics
1/14	Tuesday	Female Tract	
1/16	Thursday	Female Tract	Lab #1
1/17	Friday	Quiz 1 Due	
1/21	Tuesday	Female Tract	
1/23	Thursday	Male Tract	Lab #2
1/24	Friday	Quiz 2 Due	
1/28	Tuesday	Male Tract	
1/30	Thursday	Male Tract	Lab #3
1/31	Friday	Quiz 3 Due	
2/4	Tuesday	Puberty	
2/6	Thursday	Exam #1	
2/11	Tuesday	The Follicular Phase	
2/13	Thursday	The Follicular Phase	Lab #4
2/14	Friday	Quiz 4 Due	
2/18	Tuesday	The Luteal Phase	
2/20	Thursday	The Luteal Phase	Lab #5
2/21	Friday	Quiz 5 Due	
2/25	Tuesday	Spermatogenesis	
2/27	Thursday	Spermatogenesis	Lab #6
2/28	Friday	Quiz 6 Due	
3/4	Tuesday	Make up Day	
3/6	Thursday	Exam #2	
3/11	Tuesday	Spring Break	
3/13	Thursday	Spring Break	
3/18	Tuesday	Sperm in the Female Tract	
3/20	Thursday	Sperm in the Female Tract	Lab #7
3/21	Friday	Quiz 7 Due	
3/25	Tuesday	Early Embryogenesis and Maternal Recognition of Pregnancy	
3/27	Thursday	Early Embryogenesis and Maternal Recognition of Pregnancy	Lab #8
3/28	Friday	Quiz 8 Due	
4/1	Tuesday	Placentation, Gestation, and Parturition	
4/3	Thursday	Placentation, Gestation, and Parturition	Lab #9
4/4	Friday	Quiz 9 Due	
4/8	Tuesday	Make up Day	
4/10	Thursday	Exam #3	
4/15	Tuesday	No Class: CDE Events	
4/17	Thursday	Placentation, Gestation, and Parturition	Lab #10
4/18	Friday	Quiz 10 Due	
4/22	Tuesday	The Puerperium and Lactation	
4/24	Thursday	The Puerperium and Lactation	Lab #11
4/25	Friday	Quiz 11 Due	
4/29	Tuesday	Make up Day	
5/1	Thursday	Final Exam Review	Lab Final
5/2	Friday	Quiz 12 Due	
5/6	Tuesday	Final Exam #4	

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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>

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>

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COURSE AND UNIVERSITY PROCEDURES/POLICIES

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>

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](#)

[Undergraduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

[Graduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

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

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

Velma K. Waters Library Rm 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.

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Web url:

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

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.

A&M-Commerce Supports Students' Mental Health

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel

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Graduate Students Academic Integrity Policy and Form

[Graduate Student Academic Dishonesty Form](#)

<https://inside.tamuc.edu/aboutus/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10.pdf>

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Mental Health and Well-Being

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



<http://telusproduction.com/app/5108.html>

AI use policy

Texas A&M University-Commerce acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware

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of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

13.99.99.R0.10 Graduate Student Academic Dishonesty