



ANS 419: Diseases and Parasites of Livestock

A study of the control and prevention of common infectious and non-infectious diseases of livestock. The common parasites, their prevention, and control.

Prerequisites: ANS 1319 and BSC 1406.

Course Narrative:

This course introduces animal husbandry practices associated with disease mitigation in livestock species. The course focuses on common respiratory, reproductive and metabolic diseases through examination of clinical symptoms of morbidity and mortality, as well as interconnections across species, including humans/ zoonosis. The epidemiology impacts, including distribution and determinants, will also be covered.

Spring 2023

Meeting Times: Tuesday and Thursday 8am- 9:15am

Meeting Location: AG/ET 255

Instructor Information:

Instructor: Landon Sullivan, PAS

Office Location: AG/ET 233G

Office Hours: Open Door or by appointment

University Email Address: Landon.Sullivan@tamuc.edu

Suggested textbooks and materials:

Materials: 70page spiral notebook and writing utensil

Text: (suggested not required)-

- Veterinary Medicine: A textbook of the diseases of cattle, horses, sheep, pigs and goats (Radostits, Veterinary Medicine) 10th Edition by Otto M. Radostits CM DVM MSc MRCVS Dipl ACVIM (Editor), Clive C. Gay DVM MVSc Hon DVSc FACVSc Hon Diplomate ACVIM (Editor), Kenneth W. Hinchcliff BVSc(Hons) MS PhD Dipl ACVIM (Editor), Peter D. Constable BVSc MS PhD Dipl ACVIM (ISBN-13: 978-0702027772; ISBN-10: 0702027774)
- Animal Health 2nd Edition by David Sainsbury (ISBN-13: 978-0632038886; ISBN-10: 0632038888)
- Animal Health 3rd Edition by [Nancy S. Jackson](#) (Author), [William J. Greer](#) (Author), [James K. Baker](#) (Author) (ISBN-13: 978-0813431697; ISBN-10: 0813431697)

The syllabus/schedule are subject to change.

Instructional Method:

- Notes should be taken daily.
- Daily quizzes will be given with no notice (students should be prepared to take one each class).
- Midterm and Final exams OR unit exams may be assigned.
- Article summaries, power point presentations, field experience, quizzes and other projects may be assigned at any time throughout the course.

Course Objectives:

- Distinguish and recognize credible sources for livestock health and wellness
- Identify epidemiology careers and graduate concentrations
- Understand the correlation between human civilization and animal agriculture
- Evaluate the processes and practices of animal husbandry throughout the evolution of our species and our role as a species in the establishment and development of current flora and fauna

Student Learning Objectives (SLOs)

At the completion of this course, the successful student should be able to:

- Distinguish cellular and non-cellular pathogens as well as prions
- Familiarization of terms associated with animal health such as but not limited to: pathogen, disease, epidemiology, morbidity, mortality, zoonotic, fever, stress, lethargic, acidosis, chronic, abscess, etc
- Discuss common respiratory, reproductive and metabolic diseases in livestock species
- Describe and recognize clinical symptoms of common diseases, abnormalities/ defects and injuries
- Execute procedures to manipulate movement, handle and restrain domestic and companion animals, utilizing knowledge of the flight zone and point of balance
- Recognize proper techniques for taking vital signs (pulse rate, respiration, and temperature)
- Recognize the proper temperature, pulse and respiration rate (TPR) for various livestock species
- Identify proper tools, instruments and equipment used to sustain animal health (syringes, needles, applicators, thermometers, restraint systems, feed additives, etc.)
- Understand proper injection techniques for each of the following: subcutaneous, intramuscular, and intravenous injections as well as oral and intranasal administrations
- Assess the potential danger of working with injured, sick or stressed livestock species
- Determine gender of all animal species utilized in the course
- Execute proper techniques for taking vital signs (pulse rate, respiration, and temperature)
- Evaluate and record the general health history and status of an animal
- Compare and contrast the various types of castration (reveal attributes of each practice)
- Generate herd health management plans

The syllabus/schedule are subject to change.

Assessment Techniques:

- Pre-evaluation
- daily quizzes
- course portfolio
- exams
- presentations
- article summaries

Dress and Conduct:

Students are expected to wear or have immediate access to clothing practical for handling livestock, including but not limited to: boots (shoes that cover and protect entire foot), pants and shirts that protect skin of extremities as well as a hat (caps or some type of lid to protect eyes and cranium).

In the event we travel off campus, students are expected to exhibit courtesy, respect, kindness and grace to all participants and hosts; failure to represent TAMUC in a professional manner during such an event can result in administrative withdrawal from the course or further disciplinary action.

Course Requirements and Grading:**Portfolio: 50%**

The portfolio or course journal grade is the primary work required for a grade and includes the students' notes (70page spiral notebook) completed throughout the course. The portfolio/ journal will be graded based on the contents of notes presented each day, organization, and overall appearance.

- Rubric for Portfolio: Complete 20%; Chronological Order 20%; Legible 20%; Condition 20%; Submitted Timely 20%

Daily Assignments/ Quizzes: 30%

Daily assignments/ quizzes are assigned each day to review information portrayed in the previous lesson and bring students to a teachable moment for the new/ next lesson.

Projects: 20%

Exams, article summaries, power point presentations, field experience, quizzes and other projects may be assigned at any time throughout the course

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The point outline is tentative and is subject to change at the instructor's discretion. The guideline below is applicable to the actual total amount of points given.

Grading Scale (%)	
90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
Below 60	F

Course Policies: Technology and Media

- Cell Phones – the use of a cell phone is acceptable during the duration of this course BUT **noise from a cell phone is not tolerated**. Students should expect to be dismissed from class upon engaging in talking or texting on cell phone devices
- Lap Tops, Tablets – are also welcomed but the majority of notes, daily assignments, quizzes and exams must be handwritten
- Social Media – photos and videos recorded during lecture or any field/ laboratory exercises are **NOT** to be shared via social media without the direct consent of the instructor. Posting intellectual property can result in severe legal and academic consequences.

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.

The syllabus/schedule are subject to change.

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>

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](#).

<https://inside.tamuc.edu/campuslife/campusservices/studentRights/Code%20of%20Conduct.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](#)

<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>

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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/)

<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>

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.

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Course Outline and Tentative Schedule:

Week 1	Introduction
Week 2	Intro to pathogens and immune system; TPR's- thermometers, chart and calculations
Week 3-6	Cellular and Non-Cellular Pathogens/ Syringes and Needles
Week 7-8	Respiratory, Venereal and Metabolic Diseases in Cattle
Week 9-10	Respiratory, Venereal and Metabolic Diseases in Sheep and Goats
Week 11-13	Respiratory, Venereal and Metabolic Diseases in Poultry and Swine
Week 14-15	Respiratory, Venereal and Metabolic Diseases in Horses
Week 16	Final: During TAMUC Final Schedule

NOTE:

This is a tentative schedule, which is subject to change at any time during the duration of the semester.

In addition to a midterm and final exam, students should take notes daily, be prepared for quizzes daily; additionally, there will be three or more projects assigned throughout the course

The syllabus/schedule are subject to change.