



ANS 307: Animal Feeds and Feeding

This course is a lab component to complement the lecture, which introduces students to the chemical composition of feedstuffs, feed and nutritional requirements of livestock animals, utilization of nutrients, as well as the formulating and balancing of feed rations.

Spring 2025

Meeting Times: Monday (M); 1pm to 2:50pm

Meeting Location: AG/ET 238

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: 70 page spiral notebook and writing utensil
- Text: (suggested not required) Any edition of Livestock Feeds and Feeding by R. Kellems and D.C. Church
- OSU Ration Calculator
- NRCS Commodity Grid

Instructional Method:

- Notes should be taken daily. Daily quizzes will be given with no notice (students should be prepared to take one for each class). Other coursework may include feed ration formulation and evaluation, with discussions.

Objectives:

- Distinguish and recognize credible sources for agriculture
- Recognize nutrient requirements for various livestock species based on age, sex and environment
- Compare gastrointestinal tracts of various livestock species
- Identify sources of nutrients for various livestock species
- Understand the correlation between human civilization and animal agriculture

The syllabus/schedule are subject to change.

- 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:

- Determine appropriate feed sources for specific animal species
- Distinguish specific nutritional requirements of livestock
- Identify factors that affect feeding behavior and regulation of feed intake
- Evaluate animals to determine their nutrient requirements
- Formulate rations for domestic animals
- Evaluate ration adequacy for specific species

Lab Requirements and Grading:

Rations: 50%

Expressing the ability to utilize credible sources and formulate feed rations for animals throughout various physiological stages

Interpret and Evaluate with Feedback: 30%

Expressing the ability to evaluate a feed ration, discuss potential outcomes and make suggestions, edits and/ or revisions.

Identify Feed and Forages: 20%

Express the ability to identify various cereal grains, hays, grasses and legumes.

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

The syllabus/schedule are subject to change.

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>

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:

Week 1	Introduce and supply students with Commodity Grid and Cowculators
Week 2-8	Formulate Rations, Interpret and Feedback on Rations
Week 8-14	Identify feeds and forages
Week 14-16	All work due
NOTE: This is a tentative schedule, which is subject to change at any time during the duration of the semester.	

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