



ANS 307 01E: Animal Feeds and Feeding

COURSE SYLLABUS: Spring 2024

Meeting Times: Mon/Wed 10:00am – 10:50am (Lecture)

Meeting Location: AGET 238

Wed 1:00pm – 2:50pm (01L)

Mon 1:00pm – 2:50pm (02L)

Meeting Location: AGIT 237/238

INSTRUCTOR INFORMATION

Instructor: Dr. Byron Housewright

Office Location: AG/ET 143

Office Hours: Office Hours: Mon; 9-10

Tues; 1-3

Thurs; 9-12

Fri; By appointment

University Email Address: Byron.housewright@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

Optional Texts and/or Materials: Animal Feeding and Nutrition by Jurgens and Bregendahl (ISBN 978-0-7575-3176-7)

The syllabus/schedule are subject to change.

Course Description

Chemical composition of feedstuffs, requirements of domestic animals, utilization of nutrients, formulating and balancing rations. Prerequisites: ANS 1319, ANS 308, and MATH 1314.

Student Learning Outcomes

1. Define feeds, feeding, and feeding-related terms in livestock production
2. Identify various feedstuffs
3. Compare and contrast gastrointestinal systems of various livestock species and how these dictate differences in feedstuff use and ration formulation
4. Evaluate various feedstuffs and rations used for livestock species
5. Develop rations for various livestock species

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

Lectures will be provided in person. All students will be expected to attend labs in person during their respective lab time. 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. If students have 3 or more unexcused absences from the lab, s/he will automatically fail the course.

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!

GRADING

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

A = 90%-100%

B = 80%-89%

C = 70%-79%

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D = 60%-69%

F= 59% or Below

Assignment	Percent of Final Grade	Due Date
Exam 1	15	2/21/2024
Exam 2	15	3/27/2024
Final Exam	15	TBA
Assignments	30	Throughout semester
Final Project	10	Due 5/1 (D2L)
Participation	15	Throughout semester
Total	100	

Assessments

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

Exams: Exam dates and topics will be announced during classes well as on D2L. Exams 1 and 2 will not be cumulative unless building upon previous material by necessity. Exams 1 and 2 will be taken in person during the lecture. Students will NOT be allowed to take exam late unless **prior, university-approved excuses** have been cleared with the instructor.

Final Exam: The final exam will be based on cumulative material. The final exam will be offered during the university-designated timeframe as a take home exam. The final exam will be due by midnight in person or on D2L by midnight on 5/11. Any material can be used for assistance on this exam except the assistance of other people (including but not limited to other classmates).

Assignments: Students will be given assignments throughout the semester. These assignments may be worksheets, quizzes, case studies, etc. and may or may not be announced (i.e. pop quizzes).

Lab Assignments: Assignments will be given in lab each week. They will be due at the **beginning of the following lab in person** (unless otherwise specified).

Final Project: A final project will be assigned worth 75 total points. This will be further discussed during lecture and a rubric will be posted on D2L. It will be due on D2L by the final day of the Spring 2023 semester (5/5) at midnight.

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Participation: Participation in the course is worth 15% of the final course grade. Participation may be counted as attendance, worksheets, 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>

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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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.

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>

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>

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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>

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

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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 LECTURE OUTLINE / CALENDAR

Week of	Topic	Important dates
1/10/2024	Introduction to course	
1/15/2024	Nutrient Review	
1/22/2024	Livestock GIT review	
1/29/2024	Evaluation of feeds: chemical analyses	
2/5/2024	Feed energy and energy partitioning and protein	
2/12/2024	Forages	
2/19/2024	Concentrates	2/21 – Test 1
2/26/2024	Ration Formulation	
3/4/2024	Ration Formulation	
3/11/2024		Spring Break
3/18/2024	Ration formulation	
3/25/2024	Feeding standards	3/27 – Test 2
4/1/2024	Feed additives	
4/8/2024	Feed Toxicities	
4/15/2024	Species Feeding	
4/22/2024	Species Feeding	
4/29/2024	Species Feeding	
5/6/2024	Finals	

COURSE LAB OUTLINE / CALENDAR

Week	Topic
1/10	NO LAB
1/15	Feed sampling
1/22	Feed composition tables
1/29	CowCulator
2/5	Nutrient requirements of animals
2/12	Dry matter/as fed conversion
2/19	Modified algebraic/Pearson square ration formulation
2/26	Simultaneous ration balancing
3/4	Beef Herd
3/11	Spring Break – No Class
3/18	Feeding beef cattle – calves and finishing
3/25	Feeding Horses
4/1	Feeding dairy cattle
4/8	Feeding small ruminants
4/15	Feeding swine
4/22	Formulation
4/29	Formulation

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