

Syllabus
AGR 321 Feeds and Feeding
4 Credit Hours

Feeds used in livestock feeding; including harvesting, storage, feeding characteristics, and ration formulation from these feedstuffs.

Instructor: Danny G. Britt

Purpose of Course

- A. Disassemble a feed and study its constituents, what makes these necessary and how they are digested and utilized.
- B. Knowledge of ration balancing and feeding standards.
- C. Understand different types of feeds and methods of storing and harvesting these feeds.
- D. Introduction to modern feeding practices.

Text and Supplement Material

- A. Text
 1. Livestock Feeds and Feeding, Kellems & Church, 5th ed., 2001, Reston.
 2. Feeds and Feeding, D.G. Britt, Lab Manual and Lecture Notes.
- B. Supplemental Material
 1. Extension service publications
 2. Class handouts
 3. Journal of Animal Science
 4. Basic Animal Nutrition and Feeding. D.C. Church

Teaching Procedure:

- A. Class meets lecture 2 ½ hours per week (1 1/4 hours on T&R) and laboratory 2 ½ hours.
- B. The lecture is handled basically as a lecture with discussion of current practices.
- C. The laboratory is a combination of several methods:
 1. field trips
 2. work & labs on University Farm
 3. classroom exercises
 4. applicable films

Testing or Evaluation:

A. Lecture quizzes	300	All exams to be taken when scheduled and your top 3 of 4 grades will be used in determining final grade.
B. Written reports,	100	Any exam missed for any reason will automatically become dropped test score. (Don't ask for <u>any</u> exceptions)
C. Unannounced quizzes	100	
D. Laboratory tests	200	
E. Final exam	200	

Total Points	900	

- F. Grade may be adjusted at end of course. Students will have two major exams and a laboratory exam evaluated before Mid-term. Students experiencing difficulty will have a meeting scheduled to discuss their progress.

Testing or Evaluation - continued

G. Regular attendance is expected. Missed quizzes will be considered dropped.

Exam Schedule

Quiz #1	September 16
Quiz #2	October 7
Laboratory Quiz	November 9
Quiz #3	October 26
Quiz #4	December 2
Final Laboratory Quiz	December 7
Final Exam (Comprehensive)	December 14 (10:30 am - 12:30 am)

OCTOBER 19 IS LAST DAY TO WITHDRAW

Week of

Lecture Schedule

August 26	Introduction and Assignment (Chapter 1)
Aug. 31- Sept. 2	Digestion and GI Tract (Chapter 2)
September 7-9	Water & carbohydrates (Chapter 3)
September 11-16	Fats
September 21-23	Proteins
Sept. 28-30	Proteins
October 5-7	Vitamins
October 14	Minerals
October 19-21	Feed Value (Chapter 4)
October 26-28	Classes of feedstuff
November 4	Roughages (Chapter 7)
November 9-11	High energy feedstuffs
November 16-18	Continuation
November 23	Protein feeds (Chapter 6)
Nov. 30-Dec. 2	Feed Processing (Chapter 11)
December 7-9	Feed Additives (Chapter 9)
December 14	Final

Tentative Laboratory Schedule for AGR 321

August 31	Trip to Meadowbrook Farm
September 7	Calculations and practice problems
September 14	Anatomy of digestive tract
September 21	Energy calculations, digestion coefficients & feeding standards
September 28	Nutrient requirements and feed intake
October 5	Concentrate formula
October 19	Feed Identification & Feeding
October 26	Laboratory Midterm
November 9	Monogastric ration calculation
November 16	Field Trip to Feed Manufacturer
November 23	Monogastric ration calculation
November 30	Ruminant ration calculation
December 7	<u>Lab Final</u>

- (A) You will be divided into groups of four. Your group will be assigned certain out of class and laboratory assignments. You will be expected to function as a group and prepare and present reports.
- (B) You will be responsible for current news assignments throughout the term. These will be a paper developed on an individual basis and will be due on Thursday of each week. These papers should be one typed page. The paper should deal with a current agricultural topic being discussed in the news media such as water quality, the farm bill, food safety, economics, etc. Each paper should have proper documentation and will be graded on both content and grammar. These are to be turned in at the beginning of lecture each Thursday. These articles should be from the previous six months, be typed, no more than 1 page, title across the top, source on attached page with name and the week in the upper right corner.
- (C) All assignments are due before or at the beginning of class on due date. Each class period late will result in one letter grade decrease in your work.
- (D) Neatness is very important.
- (E) You are to schedule a feeding (morning) beginning September 20 at Meadowbrook in which you will accompany the technician in charge through all the daily feeding activities at the farm including stocker animals, brood cows, dairy feeding, sheep, and swine.

Agriculture Department Attendance Policy

Students in Agriculture/Horticulture classes are required to attend all scheduled class meetings. If students have a legitimate reason to be absent (personal illness, critical illness, death in their immediate family or participation in an approved University activity) they are expected to discuss it with the instructor prior to the anticipated absence and make arrangements for any make-up work that must be done. Completion of make-up work is the responsibility of the student. The instructor will judge the validity of the reason for an absence.

In case of an emergency of such nature that the above requirements cannot be met, the student should inform the instructor at the first opportunity after the student's return to the campus and should present adequate and documented reasons. Absences in excess of 20 percent of a class will automatically result in a failing grade unless this is waived by the instructor and department chair.

Students who have unexcused absences forfeit the right to do make-up work especially quizzes, exams and laboratories given that day.

Enforcement of this policy is the responsibility of the instructor. Unexcused absences may be used as a factor in determining a grade for the course.

UNIVERSITY DISABILITY STATEMENT

If there is any student in this class who is in need of academic accommodations and who is registered with the Office of Services for Students with Disabilities, please make an individual appointment with the course instructor to discuss accommodations. Upon individual request, this syllabus can be made available in alternative forms. If any student who is not registered with the Office of Services for Students with Disabilities has need of academic accommodations, please contact the Office directly either in person at SSB 361 or by telephone at 622-1500.