

**Animal Science 422 Applied Nutrition Fall 2009**  
**10-10:50 pm M W 307 KH**  
**10-11:50 pm T 307 KH**

**Dr. Ken Nimrick**

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**Recommended Text:** Livestock Feeds and Feeding, 5th ed. (2002) Kellems and Church

**Other Requirements:** Basic calculator

**Course Objectives:**

1. Review the fundamental principles of animal nutrition and their application to animal feeding
2. Consider more advanced concepts of animal nutrition especially as they effect the economics of animal feeding
3. Become familiar with experimental procedures in animal nutrition

**Grading system:**

Lecture exams and final	375pts	A= 747-830
Assignments/quiz	125	B= 664-746
Lab attendance	130	C= 581-663
Lecture attendance	50	D= 498-580
Class Project	150	F= 0-497
Total	830	

**Exam and Assignment Policy:**

Exam dates are provided in the course outline. Assignments are due at the start of the next class period unless specified otherwise. Late assignments will be deducted 5 points per day. The assignment sheet must be included or 5 points will be deducted.

**Attendance policy:**

Attendance and participation are important components of this course. Attendance is expected. Excuses for a missed quiz, assignment or exam will be considered only in emergency situations or special prior arrangements with the instructor.

**Student rights and responsibilities:**

See <http://www.wiu.edu/provost/student/> for policies relating to academic dishonesty, class attendance, and grade appeal.

### **ADA Compliance:**

In accordance with University policy and the Americans with Disabilities Act (ADA), accommodations in the area of test or note taking may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to my attention, as I am legally not permitted to inquire about the particular needs of students. Furthermore, I would like also to request that students who may require special assistance in emergency evacuations (i.e., fire, tornado, etc.) contact me as to the most appropriate procedures to follow in such an emergency.

## **ANSC 422**

### **Tentative Course Schedule**

Aug	24 M	Introduction and importance of nutrition
	25 Tu	<b>Lab 1 Project introduction</b>
	26 W	Non-ruminant review-digestive systems
	31 M	Non-ruminant review-the nutrients
Sep	01 Tu	<b>Lab 2 Start/set up project</b>
	02 W	Non-ruminant review-the nutrients
	07 M	<b>NO CLASS HOLIDAY</b>
	08 Tu	<b>Lab 3 Pastures and forages</b>
	09 W	Factors affecting nutrient requirements
	14 M	Ruminant review
	15 Tu	<b>Lab 4 Project-on test</b>
	16 W	Ruminant feeding and feedlot management <b>Due - Draft of introduction and materials and methods sections 35pts</b>
	21 M	Ruminant feeding and feedlot management
	22 Tu	<b>Lab 5 Pastures and forages</b>
	23 W	Ruminant feeding and feedlot management
	28 M	<b>Exam 1 125 pts</b>
	29 Tu	<b>Lab 6 Feedlot calculations</b>
	30 W	Performance enhancement principles
Oct	05 M	<b>NO CLASS Bull Test</b>
	06 Tu	<b>NO CLASS Bull Test</b>
	07 W	Performance enhancement – feed additives
	12 M	Altering rumen fermentation
	13 Tu	<b>Lab 7 Project 28-day results</b>
	14 W	Altering rumen fermentation

- 19 M Hormonal growth promotants  
 20 Tu **Lab 8 Team presentations**  
 21 W Alternative feeds  
**Due - Draft of results, discussion, and summary sections (28-day data)  
 and revisions of materials and methods sections 40pts**
- 26 M Specialty crops  
 27 Tu **Lab 9 Team presentations**  
 28 W Finish and review
- Nov 02 M **Exam 2 125pts**  
 03 Tu **Lab 10 Team Presentations**  
 04 W Swine intestinal bacteria
- 09 M Swine feed additives  
 10 Tu **Lab 11 Project 56-day results**  
 11 W Modern swine feeding
- 16 M Modern swine feeding  
 17 Tu **Lab 12 Team Presentations**  
 18W Modern swine feeding  
**Due – Complete final report with 56-day data 75pts**
- 23-27 **NO CLASS - FALL BREAK**
- Dec 30 M Dog and cat feeding  
 01 Tu **Lab 13 Field Trip – Feed Analysis**  
 02 W Horse feeding
- 07 M Horse feeding  
 08 Tu **Lab 14 Pastures and forages**  
 9 W Finish and review
- 14 M **FINAL EXAM 125pts – 10 am**