

Department of Animal Science

Fall 2014

ANSC 3310 Equine Nutrition

COURSE NUMBER/TITLE: ANSC 3310 Equine Nutrition

INSTRUCTOR: Dr. Byron C. Housewright, ph. 432-837-8413
Lecture: 11:00 – 12:15, TR
e-mail: bhousewright@sulross.edu
Office: RAS 107
Office Hours: MTW 1:30 – 4:00
If I am in my office, I am available to meet with students at any time.
Students are also welcome to schedule a specific meeting time when we are both available for additional assistance.

TEXT: Equine Nutrition and Feeding 4th Edition, D. Frape

COURSE OBJECTIVES: This course is designed to introduce concepts of equine nutrition including digestive system anatomy, feeding behavior, nutrient requirements of various horse classes and basic ration balancing.

- 1) Understanding of the basic anatomy of the equine digestive tract.
- 2) Knowledge of determining and locating nutrient requirements for various classes of equine.
- 3) Basic hand and computer ration formulation including entry of personal ingredients.
- 4) Knowledge of current topics being researched and discussed within the equine nutrition field.
- 5) Ability to evaluate feedstuffs and knowledge of traditional feeds used within equine rations.

PROJECTED LEARNING OUTCOMES:

Student will demonstrate that he/she is able to:

1. Recognize and be able to utilize animal breeds from a variety of domestic species
2. Comprehend the role of nutrition in the production of food animals
3. Understand the processes involved in producing meat products from a variety of domestic food animals
4. Select breeding animals using genetic information

GRADING POLICY:

Tests and Final – 100 points each:	400 points total
Discussion Board – 4 topics – 25 points each:	100 points total
Topic Reflections – 4 papers – 50 points each:	200 points total
Rations– 6 homework – 50 points each:	300 points total

A= 1000 - 900
 B= 899 – 800
 C= 799 – 700
 D= 699 – 600
 F= 599 and below

- 1) **Tests and Final** – Tests and final will be a combination of problems, multiple choice and short answer questions. Each will be worth 100 points and cover the material presented in class since the last test.
- 2) **Discussion Board** – Discussion boards will be posted throughout the semester on various topics within equine nutrition. You will need to complete a total of 2 original posts and 3 replies to classmates. Each board will be worth 25 points.
- 3) **Topic Reflections** – A total of 4 articles will be given to students throughout the semester discussing new innovations and also traditional challenges in equine nutrition. Students will read over these papers and turn in a 1.5 to 2 page discussion of the topics presented in the article. Contained within each paper should be an introduction, a section summarizing the assigned article and finally a paragraph of the students’ own observations about the topic.
- 4) **Rations and Homework** – Homework will consist of ration formulation and other assignments throughout the semester.

Reasonable accommodations for students with disabilities:

If you have a disability that may require assistance or accommodation or if you have questions related to any accommodations for testing, not takers, readers, etc, please speak with me as soon as possible.

Tentative Schedule of Weekly Topics: These are subject to alteration if time warrants.

Week of:	Topic covered
August 25	Introduction
September 1	Digestive System
September 8	Digestive System
September 15	Utilization of Energy and Protein
September 22	Minerals and Vitamins
September 29	Minerals and Vitamins
October 6	Ingredients
October 13	Ingredients
October 20	Estimating Nutrient Requirements
October 27	Estimating Nutrient Requirements
November 3	Feeding Brood Mares
November 10	Feeding Stallions
November 17	Feeding Growing Horses
November 24	Feeding Performance Horses
December 1	Exercise Physiology