

SYLLABUS ANSC 3317
Livestock & Wildlife Nutrition
Department of Animal Science
Spring 2016

COURSE NUMBER: ANSC 3317-001

INSTRUCTOR: Lisa Drumhiller

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LOCATION: RAS 130

TEXT: Basic Animal Nutrition and Feeding 5th Ed, Pond et al ISBN-13: 978-0471215394

Integrative Wildlife Nutrition 2009th Edition by Perry S. Barboza
ISBN-13: 978-3540878841

COURSE OBJECTIVES: This course is designed to survey and provide an introductory understanding of livestock and wildlife nutrition. Nutrient classes and their structure and metabolism will be discussed as well as an overview of gastrointestinal anatomy and function between species.

- 1) Understanding of gastrointestinal anatomy and function and the variation in these between species.
- 2) Be able discuss the nutrient classes and their requirements, metabolism and function.
- 3) Knowledge of specific structure and function of the ruminant digestive tract including rumen fermentation.
- 4) Knowledge of selected feed additives and their use in ration formulation.
- 5) Basic understanding of feed analysis and how these numbers relate to the availability of nutrients by the animal.

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

Exams (3)	100pts each
Group project	200pts
Assignments	400pts
<u>Final</u>	<u>100pts</u>
Total	1000pts

**If the student has a cumulative grade of 95% or higher by the last day of class, the final is not required.

GROUP SUPPLEMENT PROJECT

Students will be placed in groups of 4, and choose a species they would like to create a feed supplement for. The group will be required to create the supplement based on nutrient content and present/sell their feed to the class. Each member of the group will be graded by their group members on participation and contribution. Each member will also individually turn in a minimum 2 page reflection paper. Students will be given a grading rubric and further instructions closer to the project.

ASSIGNMENTS

Assignments will be given periodically throughout the semester pertaining to current topics being discussed. Assignments are expected to be turned in on the announced due date. For every day the assignment is turned in late, 10% of the assignment grade will be deducted.

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.