

Advanced Animal Nutrition
ANS 515
Spring 2016
TR | AGIT 255
Web Enhanced

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Course Description

Principles of animal nutrition; anatomy and physiology of the digestive system; biochemistry of digestion, absorption, and metabolism; and animal nutrition research methodology with emphasis on domestic animal species.

Student Learning Outcomes

1. Describe classification and structures of carbohydrates, fats, and lipids.
2. Describe the digestion, absorption, and metabolism of nutrients.
3. Describe the energy systems and models for different livestock species.
4. Describe energy requirements for maintenance, growth, reproduction, and lactation among the different livestock species.
5. Review and evaluate current peer reviewed research and describe the methodology and implications of the research.

Materials

Required Text: Animal Nutrition 7th ed.
Authors: Peter McDonald et al.
Publisher: Benjamin-Cummings Publishing Company; 7 edition (December 1, 2010)
ISBN-10: 1408204231
ISBN-13: 978-1408204238

Grading

Attendance: Attendance is expected and but I will not take attendance. I expect participation in lectures and discussions.

Grading:

1. Exams:

- Three exams will be given through the course. The last exam may be a comprehensive final.
- Exams may be given during class and/or be take home. Exam formats may include T/F, matching, multiple choice, and short answer.
- All students are to take the in-class exams at the time they are scheduled unless you have a great excuse. If a makeup is written it may be more difficult, not easier, for the student.

2. Quizzes and Homework

- 6 quizzes will be given during the semester.
- Homework assignments will be given in addition to the quizzes.

3. Review and presentation of Peer-reviewed research.

- A more detailed explanation will be given in class.

Grading

This is the expected or tentative distribution of points for the class but may change.

3 Exams	350 pts	A: 90% +
Quizzes	180 pts	B: 80-89%
Homework/Other	120 pts	C: 70-79%
Presentations	<u>300 pts</u>	D: 60-69%
	950 pts	F: Below 60%

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures

Academic Honesty

Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including (but not limited to) receiving a failing grade on the assignment, the possibility of failure in the course and dismissal from the University. Since dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced. In **ALL** instances, incidents of academic dishonesty will be reported to the

Department Head. Please be aware that academic dishonesty includes (but is not limited to) cheating, plagiarism, and collusion.

Cheating is defined as:

- Copying another's test or assignment
- Communication with another during an exam or assignment (i.e. written, oral or otherwise)
- Giving or seeking aid from another when not permitted by the instructor
- Possessing or using unauthorized materials during the test
- Buying, using, stealing, transporting, or soliciting a test, draft of a test, or answer key

Plagiarism is defined as:

- Using someone else's work in your assignment without appropriate acknowledgement
- Making slight variations in the language and then failing to give credit to the source

Collusion is defined as:

- Collaborating with another, without authorization, when preparing an assignment

If you have any questions regarding academic dishonesty, ask. Otherwise, I will assume that you have full knowledge of the academic dishonesty policy and agree to the conditions as set forth in this syllabus.

University Specific Procedures

Students with Disabilities:

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 132

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

StudentDisabilityServices@tamuc.edu