Animal Nutrition
ANS 333 – Department of Agriculture
Spring 2016

Instructor: Dr. Erin G. Brown
Office: Room 106 – Agriculture Building
Telephone: 468-3705 (Department)
Email: bronneg@sfasu.edu

Office Hours: MW 9:00 – 11:00 am; T 8:30 am – 9:30 am

Lecture: TR 11:00 am - 12:15 pm
Room: 121 Agriculture Building


Course Description: Understand the nature, function and metabolism of nutrients in animal production.

Student Learning Outcomes:
1. The student will demonstrate competence of technical subject matter in animal and poultry sciences.
2. The student will demonstrate effective oral and written communication skills.
3. The student will exhibit leadership and other interpersonal skills needed for career placement and advancement.
4. The student will exhibit problem solving skills based on quantitative and analytical reasoning.
5. The student will demonstrate knowledge of farm and ranch skills.

Objectives:

1. To introduce the student to the field of animal nutrition
2. To acquaint students with the basic anatomical differences between the various species of animals.
3. To help the student understand the division of feedstuffs into nutrient classes.
4. To understanding the function, digestion and metabolism of the various nutrients.

Grading: Your grade will be based on your performance in lecture (major quizzes = 350 points; minor quizzes = 50 points; Article = 100 pts).

Attendance Policy: You are expected to attend lecture. There are no make ups for lecture minor or major quizzes. The lowest major lecture quiz will be dropped. No make ups for any reason. Students needing to make up a missed major lecture quiz may take the cumulative final and the percentage on the final will be used to calculate the replacement grade. Any student wanting to replace a low major quiz grade may also take the final and the percentage on the final will be used to calculate the replacement major lecture quiz grade.

Lecture Major Quizzes: There will be 7 major lecture quizzes during the semester each worth 50 points. The lowest major lecture quiz will be dropped. Major quizzes will not be returned to students. Absolutely no make ups for missed lecture major quizzes.
**Lecture Minor Quizzes:** Lecture minor quizzes will occur at random times during the semester. These quizzes will be worth a total of 50 points. The quizzes could be for attendance or an actual quiz. **Absolutely no make ups for missed lecture minor quizzes.**

**Final Exam:** May 10 10:30 am – 12:30 pm

<table>
<thead>
<tr>
<th>Score Card</th>
<th>Lecture Grade</th>
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<tbody>
<tr>
<td>Major Quiz 1 (50 pts)</td>
<td></td>
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<tr>
<td>Major Quiz 2 (50 pts)</td>
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<td>Major Quiz 3 (50 pts)</td>
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<td>Minor Quizzes (50 pts)</td>
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<tr>
<td>Article (100 pts)</td>
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<tr>
<td>Lecture (500 pts total)</td>
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**Final Grade (%) = (total lecture pts ÷ 450) * 100**

**Final Exam Schedule:**
http://www.sfasu.edu/registrar/Registration/finalexamschedule.html

**Add/Drop Policy:**
http://www.sfasu.edu/upp/pap/academic_affairs/add_drop.html

**Academic Integrity**
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

**Definition of Academic Dishonesty**
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

**Withheld Grades Semester Grades Policy (A-54)**
Ordinarily, at the discretion of the instructor of record and with the approval of the academic
chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

**Students with Disabilities**

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to [http://www.sfasu.edu/disabilityservices/](http://www.sfasu.edu/disabilityservices/).

**Responsible Use of Technology:** It is expected that all students will only use cell phones, PDAs, laptop computers, MP3 players and other technology outside of class time or when appropriate in class. Answering a cell phone, texting, listening to music or using a laptop computer for matters unrelated to the course may be grounds for dismissal from class or other penalties.

**Classroom Behavior:** Disruptive, distracting, or disrespectful behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic, or other penalties. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom.
## Animal Nutrition Lecture Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Topic</th>
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<tbody>
<tr>
<td>Feb 4</td>
<td>Concepts in Nutrition, Methods of Analysis</td>
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<tr>
<td>Feb 18</td>
<td><strong>Major Quiz 1</strong> Gastrointestinal Tract and Nutrition</td>
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<tr>
<td>March 3</td>
<td><strong>Major Quiz 3</strong> Nutrients (Water and Carbohydrates)</td>
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<td>March 22</td>
<td><strong>Major Quiz 4</strong> Nutrients (Protein and Fat)</td>
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<td>March 31</td>
<td><strong>Major Quiz 5</strong> CHO digestion and metabolism, Protein digestion and metabolism</td>
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<tr>
<td>April 14</td>
<td><strong>Major Quiz 6</strong> Fat digestion and metabolism, Measuring Digestibility</td>
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<tr>
<td>May 3</td>
<td><strong>Major Quiz 7</strong> Feeding Standards, Minerals and Vitamins</td>
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Animal Nutrition ANS 333
Topic Review Article

**Topic Due:** February 24; can be written or emailed
**Final Draft Due:** April 7; need paper copy
**Select Top Paper from Pod:** April 7; pod winner needs to send electronic copy of paper and list of pod members
**Select Top Paper from Class:** April 21; send selection by email or d2l

**Purpose:** To understand recent advancements in nutrition or an area that you are interested in related to nutrition. Any topic related to nutrition in any species is acceptable.

The topic of your article is wide open to any nutrition related subject. The article should contain an introduction, findings, discussion of the topic, and conclusion. You will write an article that can be submitted to a popular press magazine or livestock publication (ex: Gulf Coast Cattleman or Drovers).

On a separate page, you must also include literature cited. Use peer-reviewed publications (Journal of Animal Science). **Do not use webpage citations.** You need at least 6 peer-reviewed references. **Your references should be recent within the last 10 years.**

When writing your article, think about these questions:

1. How is my topic relevant to nutrition as we have been studying in this class?
2. How will the topic I am researching help with nutrition and production?
3. What impact will this area have on nutrition?

**Length of article:** The article must be at least 4 pages and include an introduction paragraph, three body paragraphs with data supporting your findings and explaining the topic’s importance, and a concluding paragraph.

**Format:** The paper should be 10 to 12 point type and double spaced.

**Grading:** You will work in pods (3-4 students). In your pod, you will assist in editing each other’s papers and then select the best article from your pod. The best article from the pod receives 10 additional points on the article, if these conditions are met. The winner’s name and an electronic copy of the paper must be submitted by the due date. The class will then vote on the best article in the class. That person also receives 10 additional points and the pod receives 10 additional points.
References: Use the format from the Journal of Animal Science (JAS) (http://jas.fass.org/). References should be on a separate page in alphabetical order and titled literature cited. Look at an article from JAS to see the correct way to format. Examples for various types of sources are listed below:

Journals


Books


Conferences

Other