Animal Nutrition  
ANSC 3333 – Department of Agriculture  
Maymester 2024

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

Office Hours: MTWR 8:00 am – 9:00 am; 12:15 pm – 1:15 pm

Lecture: MTWRF 9:00 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 (exams = 300 points; minor quizzes = 50 points).

Attendance Policy: You are expected to attend lecture. There are no make ups for lecture minor quizzes. Exams may be made up on the day the student returns to class from an excused absence with a note and will be administered during class time. The excuse note must be presented on the day the student returns to class when the exam is administered, no exceptions. Any student wanting to replace a low exam grade may take the final and the percentage on the final will be used to calculate the replacement exam grade. Or the final may be used to replace a missed exam should the student not provide an excuse note to take the missed exam.

Lecture Exams: There will be 3 exams during the semester each worth 100 points. Exam 2 is split in two sections. Exams will not be returned to students. Exams may be made up on the day the student returns to class from an excused absence with a note and will be administered during class time. The excuse note must be presented on the day the student returns to class when the exam is
administered, no exceptions. The student must notify the instructor of the
excused absence prior to missing class if it is a university related absence. The
instructor must be notified of illness on the day of the exam and return with a
doctor’s excuse in order to take the exam upon returning to class. The instructor
must be notified of other excused absences the day the absence occurs and
return with proof of absence.

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 29 9:00 am – 11:30 am

<table>
<thead>
<tr>
<th>Score Card</th>
<th>Lecture Grade</th>
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<tbody>
<tr>
<td>Exam 1 (100 pts)</td>
<td>______</td>
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<tr>
<td>Exam 2a (50 pts)</td>
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<td>Exam 2b (50 pts)</td>
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<td>Exam 3 (100 pts)</td>
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<tr>
<td>Minor Quizzes (50pts)</td>
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<td>Nutrition presentation (50 pts)</td>
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<td>Lecture (400 pts total)</td>
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Final Grade (%) = (total lecture pts ÷ 400) * 100

Information on the following is available at Student Syllabus Resources:
- Institution Absences (HOP 04-110)
- Academic Integrity (HOP 04-106)
- Withheld Grades Semester Grades Policy (HOP policy 02-206)
- Students with Disabilities and Disability Services
- Student Wellness and Well-Being
- Additional Campus Resources
- Crisis Resources

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

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<thead>
<tr>
<th>Lecture Topic</th>
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<tbody>
<tr>
<td>Concepts in Nutrition</td>
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<tr>
<td>Methods of Analysis</td>
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<tr>
<td>Gastrointestinal Tract and Nutrition</td>
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<tr>
<td>Nutrients (Water and Carbohydrates)</td>
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<table>
<thead>
<tr>
<th>May 15</th>
<th>Exam 1</th>
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<tbody>
<tr>
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<td>Nutrients (Protein and Fat)</td>
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<thead>
<tr>
<th>May 20</th>
<th>Exam 2a</th>
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<tbody>
<tr>
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<td>Protein digestion and metabolism</td>
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<td>Vitamins</td>
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<thead>
<tr>
<th>May 23</th>
<th>Exam 2b</th>
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<tbody>
<tr>
<td></td>
<td>Fat digestion and metabolism</td>
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<tr>
<td></td>
<td>Measuring Digestibility</td>
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<td>Feeding Standards</td>
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<td>Minerals</td>
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<tr>
<th>May 28</th>
<th>Exam 3</th>
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Animal Nutrition ANSC 3333

Nutrition Topic Presentation

**Topic Due:** May 14  
**Slides Due:** May 15  
**Presentation date:**

**Purpose:** To understand a “real” nutrition topic that you have encountered in your life.

The topic of your presentation is wide open to any nutrition related topic/idea. Your presentation should present the claim or idea and then present scientific findings to prove/disprove the claim.

On a separate page, you must have literature cited. Use peer-reviewed publications (ex: 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 5 years.**

**Length of presentation:** The presentation needs to present the topic and provide evidence for the claim of the topic. You will need to build a powerpoint presentation. The presentation will be 5-10 minutes in length.

- What is the claim
- What common information is presented (on blogs, websites)
- What is the science behind the claim (published research)

**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**