

# Animal Science 3320

## Animal Nutrition & Feeding

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Phone: 325-486-6925  
Office: Vincent (VIN) 227

**Office Hours:** If the door is open, come on in. If not, then please email me to set up an appointment, and/or state your question, comment, or concern.

### Course Information

#### Course Description

A fundamental course in livestock nutrition; ruminant, pseudo-ruminant, and non-ruminant animals. Micro- and macro-nutrients, vitamins, digestion, and ration formulation will be discussed in the level of detail suited for a fundamental animal nutrition course.

#### Prerequisites

A considerable interest in learning about animal nutrition, and feed ration formulation.

#### Student Learning Outcomes

Students will gain a foundational knowledge and understanding of livestock nutritional systems. Students will become more familiar with nutrient functions and nutrient requirements, and nutritional adaptations specific to species. Furthermore, students will acquire knowledge of common feed ingredients, and will learn how to formulate a feed ration.

#### Course Delivery

Online, using [Blackboard](#).<sup>1</sup>

## Recommended Text

Beef Cattle Production Systems, by Andy D. Herring. (Optional, but recommended for you use in the class, and for the future)

## Technology Requirements

To successfully complete this course, students need to be able to get onto Blackboard to check for announcements, and view/download/complete/submit assignments, as they are given.

## Communication

Email: [jlangdon@angelo.edu](mailto:jlangdon@angelo.edu)

Office Phone: 325-486-6925

Office Room #: Vincent (VIN) 227 (email, or talk with me to set up an appointment)

Blackboard: View for announcements, and for assignments.

## Grading

### Evaluation and Grades

GRADES:            Exams = 70 %

                          Quizzes = 30 %

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100 %

## Grading System

Course grades will depend on completing course requirements and meeting the student learning outcomes.

This course uses the following grading scale:

A = 90.00-100 points

B = 80.00-89.99 points

C = 70.00-79.99 points

D = 60.00-69.99 points

F = 0-59.99 points (Grades are not rounded up)

## Assignment and Activity Descriptions

You'll get 72 hours to complete each **exam** (biweekly).

You'll get 24 hours to complete each **quiz** (weekly).

Exams and quizzes are to be completed (e.g., word document, pdf, pdf scanned writing, etc.) and then sent to my email on the day and time they are due ([jlangdon@angelo.edu](mailto:jlangdon@angelo.edu)).

**Exams** are given after every two weeks of material, they are cumulative, and there is no “final exam”, per se. Exams will require a good amount your own thought, supported by sound research when researching is necessary. These exams will challenge, and grow your knowledge, and hopefully direct, grow, and fuel your passion for agriculture. Exams will test your ability to apply knowledge retained, and product synthesis skills, using that knowledge. Exams are fair game. You listen, study (repetition), learn, apply, and synthesize, and you will do well. **Quizzes** will be given after each week of material, simply to test knowledge retained. Quizzes are also fair game.

## CONTENT OUTLINE

All daily lectures and content will be posted on Blackboard the night before the class day that you will view them. **Class days are Tuesday, Wednesday, and Thursday**; meaning, material should be viewed on these days. Material consists of recorded lectures, powerpoint slides, course content, reading material, etc. Your **first quiz** will be one week from Tuesday June 7 (June 14), and your **first exam** will be two weeks from Tuesday June 7 (June 21).

- I. Discuss syllabus and course business
- II. How digestion works
- III. Learning about all nutrients
- IV. Feeds, commodities, and economics
- V. Feed ration formulation
- VI. Nutrition of ruminant animals
- VII. Nutrition of monogastric animals
- VIII. Nutrition of pseudo-ruminant animals

## General Policies Related to This Course

All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](#)<sup>2</sup>
- [Angelo State University Catalog](#)<sup>3</sup>

### Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university's [Statement of Academic Integrity](#).<sup>4</sup>

### Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at [ADA@angelo.edu](mailto:ADA@angelo.edu). For more information about the application process and requirements, visit the [Student Disability Services website](#).<sup>5</sup> The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dr. Dallas Swafford  
Director of Student Disability Services  
Office of Student Affairs  
325-942-2047  
[dallas.swafford@angelo.edu](mailto:dallas.swafford@angelo.edu)  
Houston Harte University Center, Room 112

### Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#)<sup>6</sup> for more information.

### Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)<sup>7</sup> in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the [ASU Writing Center](#).<sup>8</sup>

### **Student Absence for Observance of Religious Holy Days**

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 [Student Absence for Observance of Religious Holy Day](#)<sup>9</sup> for more information.

### **Title IX at Angelo State University**

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: [Incident Reporting Form](#)<sup>10</sup>

Face to Face: Mayer Administration Building, Room 210

Phone: 325-942-2022

Email: [michelle.miller@angelo.edu](mailto:michelle.miller@angelo.edu)

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State's policy please visit the [Title IX website](#).<sup>11</sup>

### **Information About COVID-19**

Please refer to ASU's [COVID-19 \(Coronavirus\) Updates](#)<sup>12</sup> web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

## Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification on potentially short notice based on developing circumstances.

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<sup>1</sup> <https://blackboard.angelo.edu/>

<sup>2</sup> <https://www.angelo.edu/current-students/student-handbook/>

<sup>3</sup> <https://www.angelo.edu/academics/catalog/>

<sup>4</sup> <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>

<sup>5</sup> <https://www.angelo.edu/current-students/disability-services/>

<sup>6</sup> <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

<sup>7</sup> <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>

<sup>8</sup> [https://www.angelo.edu/current-students/writing-center/academic\\_honesty.php](https://www.angelo.edu/current-students/writing-center/academic_honesty.php)

<sup>9</sup> <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>

<sup>10</sup> <https://www.angelo.edu/incident-form>

<sup>11</sup> <https://www.angelo.edu/title-ix>

<sup>12</sup> <https://www.angelo.edu/covid-19/>