



SYLLABUS

ANSC 3503, Animal Nutrition Spring 2019

Instructor: Milton B. Daley, Ph.D.
Section # and CRN: P01- ANSC 3503, 21146
Office Location: Agriculture and Business bldg. Room # 307
Office Phone: 936-261-5134
Email Address: mdaley@pvamu.edu
Office Hours: Monday-Friday; 2:00 PM – 5:00 PM
Mode of Instruction: Face to Face Instructional method

Course Location: Agriculture and Business bldg. Room # 217
Class Days & Times: M 10:00 am - 10:50 am (Lecture) W 11:00 am - 11:50 am (Labs)
Catalog Description: Composition and digestibility of feed, with physiology, preparation, feeding standards, calculation and balancing rations for commercial animal (swine, cattle-beef and dairy, sheep, goats, and horses).

Prerequisites: ANSC 1513.
Co-requisites: None:

Required Texts: Fundamentals of Animal Nutrition (Provided by Professor)

Recommended Texts: Animal Nutrition, 7th edition / Edition 7
 P. McDonald ISBN-10: 1408204231

Student Learning Outcomes:

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	Demonstrate the importance of the selection of ingredients and the differences between nutrients and ingredients.		
2	Measure their knowledge in the role of the gastrointestinal system and feed selection.		
3	Students will have learned the effects in the digestibility to feed nutrients and bioavailability.		
4	Understand the concepts of feed composition and dietary components, such as water, protein, carbohydrates, minerals, vitamins, and lipids.		
5	Increased their knowledge on the effects of harvesting, storage, and processing of feeds on the nutrition quality.		
6	Demonstrate feed formulations and ingredient selection.		

Course Goals or Overview:

The overall goal of the course is to expand the student's awareness to the role of feed ingredients in maintaining and increasing livestock production.

Course Objectives/Accrediting Body (NCATE, ABET, NAAB, etc...) Standards Met: *(standards will depend on the course)*

The primary objective of the course is to deal specifically with feed ingredients, composition, and the role in a balance ration to maintain growth and production.

Major Course Requirements

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course. *Note: See Program Outcomes in True Outcomes*

Exams – written tests designed to measure knowledge of presented course material

Exercises – written assignments designed to supplement and reinforce course material

Projects – web development assignments designed to measure ability to apply presented course material

Class Participation – daily attendance and participation in class discussions

(points will vary according to instructor's grading system)

Method of Determining Final Course Grade

(points will vary according to instructor's grading system)

Course Grade Requirement	Value	Total
1) Value of the first 4 exams	15% each	60
2) Lab /Presentation		10
3) Assignment/ Term Paper		10
4) Final exam		20
5) Total		100

Grading Criteria and Conversion:

A = 90 – 100 pts;

B = 80 – 89 pts;

C = 70 – 79 pts;

D = 60 – 69 pts;

F = 59 pts or below

Detailed Description of Major Assignments: [Describe in each assignment valued at 10% of grade or more]

Assignment Title or Grade Requirement	Description
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[NOTE: Insert or remove row(s) as needed]

Course Procedures or Additional Instructor Policies

Task stream

Taskstream is a tool that Prairie View A&M University uses for assessment purposes. At least one of your assignments is **REQUIRED** to be submitted as an "artifact," an item of coursework that serves as evidence that course objectives are met. More information will be provided during the semester, but for general information, you can visit Taskstream via the link in eCourses.

[NOTE: If there are any special instructions relating to assignment submissions, formatting, or other course policies, they should be included here. Include individual policies on tardies, cell phones and other class disruptions. If you have additional classroom rules that do not fit on a single page, consider posting them in eCourses instead.]

Semester Calendar

Week One:	History of Nutrition
Topic Description	b) Composition of Animals and their Feed/Food The purpose of this topic is for students to increase their understanding of both history and feed composition in animal nutrition.
Readings:	M Unit 1: Feeding and Management of Monogastrics (find on e-course)
	W Lab (Determination of moisture and ash)
Assignment (s):	Unit 2 - Nutrients and their functions (Watch this presentation before coming class on www.icevonline.com . How to login and register information will be provide)
Week Two:	Structure and Function of the Digestive Tract
Topic Description	b). Definition of feed nutrients /Carbohydrates, Fats, Proteins, Minerals, Vitamin and Water The purpose of these topics is for students to increase their understanding of the digestive tract and how each class of nutrients is absorbed.
Readings:	M Unit 2/3: Feeding and Management of Swine and Poultry (monogastric)
	W Lab (Determination of crude protein)
Assignment (s):	Unit 2 - The Digestive System (monogastric / polygastric animals) (Watch this online presentation before coming class)
	Exam 1
Week Three:	Digestion / Role and requirement of Water
Topic Description	The purpose of this topic is for students to increase their understanding on the importance of water in nutrition.
Readings:	M Unit: 4/5 Feeding and Management of Cats and Dogs (monogastric)
	W Lab (Determination of Fats/Lipids)
Assignment (s):	(Watch this presentation www.icevonline.com before coming class and answer all questions from video presentation)
Week four:	Digestion of Carbohydrates, Fats/Lipids and Protein
Topic Description	The purpose of this topic is for students to increase their understanding of how nutrients are catabolized and anabolize in the animals' body.
Readings:	M Unit 6/7: Feeding and Management of Horses
	W Lab (Determination of Crude Fiber)
Assignment (s):	Roughages, Hay & Silage (Watch this presentation www.icevonline.com before coming class)
	EXAM 2
Week five:	Role of Vitamin and Minerals in the diet
Topic Description	The purpose of this topic is for students to increase their understanding role of Vitamin and minerals in the animals diet

Readings: M Unit 8/9: Feeding, Management, Housing and Equipment

W Lab (Ration formulation)

Assignment (s): Unit 6 - Feed Processing, Additives & Rations
(PVAMU) (Watch this presentation before coming class)

Week Six: Vitamin Nutrition

Topic Description The purpose of this topic is for students to increase their understanding role of Vitamin

Readings: M Unit 10: Feeding Dairy Cattle

W Lab (Calculation of: Dry Matter, N.F.E., T.D.N. and Coefficient of digestibility)

Assignment (s): (Watch this presentation www.icevonline.com before coming class and answer all questions from video presentation)

Exam 3

Week Seven: Formulating and Using Premixes

Topic Description The purpose of this topic is for students to increase their understanding of how to formulate premixes for ration formulation.

Readings: M Feeding Beef Cattle

W Lab (Formulating Premixes)

Assignment (s): Watch this presentation www.icevonline.com before coming class and answer all questions from video presentation)

Midterm

Feed Additives

Week Eight: Topic Description The purpose of this topic is for students to increase their understanding of the importance of feed additives in animal feed.

Readings: M: Feeding Dairy and meat Goats

W Lab

Assignment (s): Watch this presentation www.icevonline.com before coming class and answer all questions from video presentation)

Week Nine: Mycotoxins

Topic Description The purpose of this topic is for students to increase their understanding of mycotoxins and their implications in animal nutrition.

Readings: M Feeding Sheep

W Lab (Impact of mycotoxins on farm animals)

Assignment (s): Watch this presentation www.icevonline.com before coming class and answer all questions from video presentation)

EXAM 4

Week Ten: Pasture Management

Topic Description The purpose of this topic is for students to increase their understanding pasture management and grass selection.

Readings: M: Role of Antibiotics in Animal Nutrition

W Lab (Clean Up)

Assignment (s): Watch this presentation www.icevonline.com before coming class and answer all questions from video presentation)

**Week Twelve:
Topic Description**

Feeding Animal Waste
The purpose of this topic is for students to increase their understanding of how animal waste can be fed to other animals and their implications.

Readings: M Term Paper Review

W Lab

**Week Thirteen:
Topic Description**

Feed Processing
The purpose of this topic is for students to increase their understanding of how feed and feeding materials are handled and processed

Readings: M Presentations

W Presentations

Assignment (s): All assignments turned in.

**Week Fourteen
Topic Description**

Feed/Food Additives (implications for animals and human consumption eg. obesity)

The purpose of this topic is for students to increase their understanding of feed/food additives and their applications and implications in the diets of animals and human.

Readings: M Presentations

W Presentations

Assignment (s): Presentations

**Week Fifteen
Topic Description**

FINAL EXAM
Comprehensive Exam

Student Support and Success

John B. Coleman Library

The library and its partners have as their mission to provide resources and instructional material in support of the evolving curriculum, as a partner in Prairie View A&M University's mission of teaching, research, and service and to support the University's core values of access and quality, diversity, leadership, relevance, and social responsibility through emphasis on ten key areas of service. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty. <https://www.pvamu.edu/library/> Phone: 936-261-1500

The Learning Curve (Center for Academic Support)

The Learning Curve offers Tutoring via peer tutoring. The services include workshops (i.e., Save My Semester, Recalculate Your Route), seminars (i.e., Tools You Can Use: TI-84), group review sessions (i.e., College Algebra Topic Reviews, GRE Preparation), group study opportunities (i.e., TSIA, HESI, Study Break, Exam Cram), and test-taking strategies (How to take Notes, Study Buddy, 5 Day Study Guide). The Learning Curve is a nationally certified tutoring program through the National Tutoring Association. The peer tutors are trained and certified by the coordinator each semester. Location: J.B. Coleman Library Rm. 207F. Phone: 936-261-1561

The Center for the Oversight and Management of Personalized Academic Student Success (COMPASS)

The Center for the Oversight and Management of Personalized Academic Student Success (COMPASS) is designed to help Prairie View students in their second year and beyond navigate towards graduation by providing the following services: Academic Advisement, Targeted Tutorials for Personalized Learning, Campus-Wide Referrals, and Academic & Social Workshops. Location: J.B. Coleman Library Rm. 306. Phone: 936-261-1040

Writing Center

The Writing Center provides student consultants on all aspects of the writing process and a variety of writing assignments. Writing Center consultations assist students in such areas as prewriting, brainstorming, audience awareness, organization, research, and citation. Students taking on-line courses or courses at the Northwest Houston Center or College of Nursing may consult remotely or by email. Location: Hilliard Hall Rm. 121. Phone: 936-261-3724.

Student Counseling Services

The Student Counseling Services unit offers a range of services and programs to assist students in maximizing their potential for success: short-term individual, couples, and group counseling, as well as crisis intervention, outreach, consultation, and referral services. The staff is licensed by the State of Texas and provides assistance to students who are dealing with academic skills concerns, situational crises, adjustment problems, and emotional difficulties. Information shared with the staff is treated confidentially and in accordance with Texas State Law. Location: Owens-Franklin Health Center Rm. 226. Phone: 936-261-3564

Testing

The Department of Testing administers College Board CLEP examinations, the HESI A2 for pre-nursing majors, LSAT for law school applicants and MPRE for second-year law students, the Experiential Learning Portfolio option, the Texas Success Initiative (TSI) Assessment, which determines college readiness in the state, and exam proctoring, among other service such as SAT and ACT for high school students. Location: Delco Rm. 141. Phone: 936-261-4286

Office of Diagnostic Testing and Disability Services

As a federally-mandated educational support unit, the Office of Disability Services serves as the repository for confidential disability files for faculty, staff, and students. For persons with a disability, the Office develops individualized ADA letters of request for accommodations. Other services include: learning style inventories, awareness workshops, accessibility pathways, webinars, computer laboratory with adapted hard and software, adapted furniture, proctoring of non-standardized test administrations, ASL interpreters, ALDs, digital recorders, livescribe, Kurtzweil, and a comprehensive referral network across campus and the broader community. Location: Evans Hall Rm. 317. Phone: 936-261-3585

Veteran Affairs

Veterans Services works with student veterans, current military and military dependents to support their transition to the college environment and continued persistence to graduation. The Office coordinates and certifies benefits for both the G.I. Bill and the Texas Hazlewood Act. Location: Evans Hall Rm. 323. Phone: 936-261-3563

Office for Student Engagement

The Office for Student Engagement delivers comprehensive programs and services designed to meet the co-curricular needs of students. The Office implements inclusive and accessible programs and services that enhance student development through exposure to and participation in diverse and relevant social, cultural, intellectual, recreational, community service, leadership development and campus governance. Location: Memorial Student Center Rm. 221. Phone: 936-261-1340

Career Services

Career Services supports students through professional development, career readiness, and placement and employment assistance. The Office provides one-on-one career coaching, interview preparation, resume and letter writing, and career exploration workshops and seminars. Services are provided for students at the Northwest Houston Center and College of Nursing in the Medical Center twice a month or on a requested basis. Distance Learning students are encouraged to visit the Career Services website for information regarding services provided. Location: Evans Hall Rm. 217. Phone: 936-261-3570

University Rules and Procedures

Disability Statement (Also See Student Handbook):

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 believe you have a disability requiring an accommodation, please contact Disability Services, in Evans Hall, Room 317, or call 936-261-3585/3.

Academic Misconduct (See Student Handbook):

You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of Academic Dishonesty:

1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

Nonacademic Misconduct (See Student Handbook)

The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. The Dean of Students under nonacademic procedures will adjudicate such incidents.

Sexual Misconduct (See Student Handbook):

Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

Title IX Statement

Prairie View A&M University (PVAMU) is committed to supporting students and complying with the Texas A&M University System non-discrimination policy. It seeks to establish an environment that is free of bias, discrimination, and harassment. If you experience an incident of sex- or gender-based discrimination, including sexual harassment, sexual assault or attempted sexual assault, we encourage you to report it. While you may talk to a faculty member about an incident of misconduct, the faculty member must report the basic facts of your experience to Ms. Alexia Taylor, PVAMU's Title IX Coordinator. If you would like to speak with someone who may be able to afford you privacy or confidentiality, there are individuals who can meet with you. The Title IX Coordinator is designated to handle inquiries regarding non-discrimination policies and can assist you with understanding your options and connect you with on- and off-campus resources. The Title IX Coordinator can be reached by phone at 936-261-2123 or in Suite 013 in the A.I. Thomas Administration Building.

Class Attendance Policy (See Catalog for Full Attendance Policy)

Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video and/or internet.

Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class during regular semesters and summer terms. Each faculty member will include the University's attendance policy in each course syllabus.

Student Academic Appeals Process

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

TECHNICAL CONSIDERATIONS

Minimum Recommended Hardware and Software:

- Intel PC or Laptop with Windows 7; Mac with OS X; Smartphone or iPad/Tablet with Wi-Fi
- High speed Internet access
- 8 GB Memory
- Hard drive with 320 GB storage space
- 15" monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Most current version of Google Chrome, Safari, Internet Explorer or Firefox

Note: Be sure to enable Java & pop-ups in the Web browser preferences

Participants should have a basic proficiency of the following computer skills:

- Sending and receiving email
- A working knowledge of the Internet
- Proficiency in Microsoft Word (or a program convertible to Word)
- Proficiency in the Acrobat PDF Reader
- Basic knowledge of Windows or Mac O.S.

Netiquette (online etiquette):

Students are expected to participate in all discussions and virtual classroom chats as directed. Students are to be respectful and courteous to others on discussions boards. Foul or abusive language will not be tolerated.

Technical Support:

Students should go to <https://mypassword.pvamu.edu/> if they have password issues. The page will provide instructions for resetting passwords and contact information if login issues persist. For other technical questions regarding eCourses, call the Office of Distance Learning at 936-261-3283

Communication Expectations and Standards:

Emails or discussion postings will receive a response from the instructor, usually in less than 48 hours. Urgent emails should be marked as such. Check regularly for responses.

Discussion Requirement:

Online courses often require minimal to no face-to-face meetings. However, conversations about the readings, lectures, materials, and other aspects of the course can take place in a seminar fashion. This will be accomplished by the use of the discussion board. The instructor will determine the exact use of discussion.

It is strongly suggested that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it/they should be copied and pasted to the discussion board.

Professors Notes:

***Late assignments will be accepted unless you have a medical/doctor's note.**

***Please attend All Classes and Labs. There are no make up for missed labs.**

***No cell phone will be tolerated in any exam.**

***Use bathroom before exam begins. Once the exam starts you will NOT be allowed outside the exam unless you are finish.**

*** You are responsible for all your notes, study them!!!!**