



SYLLABUS

ANSC 3523, Meat Science 3523 Summer 2019

Instructor: Milton B. Daley, Ph.D.
Section # and CRN: PO1- ANSC 3523, 21136
Office Location: Agriculture and business bldg. # 307
Office Phone: 936-261-5134
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Office Hours: Monday-Friday; 2:50 AM – 5:00 PM
Mode of Instruction: Face to Face Instructional Method

Course Location: Agriculture and Business Building
Class Days & Times: MTWR: 09:00 am-10:50 am (lecture Rm 217) 1:00-2:50pm (Lab May Bldg. Rm 106)
Catalog Description: Credit 3 Semester Hours. Meat Science encompasses everything from growth and development to meat processing. This class is designed to expose you to every aspect of meat science. We will start with growth and development and end the class with discussion of the USDA rules and regulations that affect the meat industry. The laboratory exercises are hands –on and will aid you in gaining practical knowledge of the subject matter. I hope you will enjoy the class, as it is meant to be fun, and I will challenge you to think every step of the way.

Prerequisites: The prerequisite is Bachelor of Science degree in Animal Science, or at least nine (9) semester credit hours in Animal Science at the undergraduate level. Students from other science-based areas, such as biology and chemistry, will be accepted with the understanding that they will have to take the 9 hours of the pre-requisites.

Co-requisites: None:

Required Texts: Principles of Meat Science, 4th Edition, Aberle, Forrest, Gerrard, and Mills

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Student Learning Outcomes:

	Upon successful completion of this course, students will be able to:	Program Learning Outcome # Alignment	Core Curriculum Outcome Alignment
1	The student will be able to identify the nutritional value of all types of meats. The student will become more familiar with the basic muscle structure, cooking methods and	The degree program is designed to provide a generalist emphasis that serves as the foundation for diverse careers and as a	Help satisfy the requirements for a B.S. degree in

	processing and packaging.	springboard for advanced study in agriculture and natural resource sciences and related fields.	Agriculture.
2	The student will become familiar with carcass and grades and grading system for beef, pork, and lamb.	The Agriculture program prepares the graduate to perform as an entry level professional in a broad range of areas.	
3	The student will be able to identify both the wholesale and retailed cuts of beef, pork chicken, and lamb carcasses. Additionally, the student will be able to identify meat inspection methods and food safety issues	Acquire the ability and understanding in the application of the fundamental principles in animal and poultry production systems.	

Course Goals or Overview:
The overall goal of this course is for students to be knowledgeable in the science, production, and regulation of meat from farm/field to fork.

Course Objectives/Accrediting Body/ Standards Met: *(standards will depend on the course)*

At the end of this course, the student will gain an understanding of;

1. Meat grades and classifications
2. Wholesale and retail cuts of a carcass
3. How to determine live animal indications of meat composition and nutrition
4. How to identify factors related to food safety and meat inspection as it relates to HACCP
5. Meat processing and packaging

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) Lecture Exam	4 exams at 15 % each	60
2) Class assignments	10 at 1 % each	10
3) Practical	6 at 5 % each	30
5) Total		100

Grading Criteria and Conversion:

A = 90 –100pts;

B = 80 – 89 pts;

C = 70 – 79pts;

D = 60 – 69 pts;

F = 59 or below

Detailed Description of Major Assignments: [\[See ecourses\]](#)

Assignment Title or

Grade Requirement

Description

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.

[\[See ecourses.\]](#)

Semester Calendar

Weeks 1-3 The Meat Industry

- Introduction
- History of Meat
- Growth and Development
- Growth and Dev./Muscle Structure
- Muscle Contraction
- Energy Metabolism of Muscle
- Energy Metabolism/Review

EXAM 1

Labs

Tour of Meat Lab
Pork Slaughter Demo
Muscle Anatomy
Animal Slaughter (Beef and pork slaughter)
Carcass Fabrication
Carcass Evaluation

Meat Microbiology
Meat processing and Packaging

Weeks 3-5 Genetics

- Conversion of Muscle to Meat
- Meat Quality

Weeks 6-8 Meat Nutrition

- Nutrition
- Packaging
- Poultry Industry
- Processed Meats/Sausage
- Hams etc.

EXAM 2

Weeks 8-10 Meat Handling and Safety

- Sensory Science
- Meat Cookery
- Food Safety
- Country of Origin Labeling
- FSIS Rules and Regulation
- Video, The Butcher
- Presentation (Bioinformatics)

Weeks 11-14 Regulations

- Retail Meat Marketing
- Microbiology
- GMP, SSOP, HACCP

EXAM 3

Weeks 15-16 Farm Sanitation/Bio-security

- Management
- Infectious Diseases
- Class Presentation

FINAL EXAM (4)

- **Weekly reading assignment will be beginning at chapter 1 through to chapter 14 from your text - book (Dairy Cattle Science 4th edition). Student will complete one chapter per week. All assignments must be completed before class begins each week.**

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. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

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 exact use of discussion will be determined by the instructor.

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.