

ANIMAL SCIENCE 3402 BEEF CATTLE PRODUCTION AND MANAGEMENT

Instructor: DeMetris Reed
Office: RAS 106
Online Office Hours: (MT)
1:00-4:00 pm

Spring 2023
Lecture: Online
Laboratory: T 3-4:50 pm. RAS,
135

Course Description:

The course will be divided into the areas of history, breeding, feeding, and management of beef cattle. Range laboratory exercises will be an integral part of the course.

Course Objectives:

By the end of the course, you will be able to understand:

1. The beef cattle industry from the perspective of a supply chain system.
2. The cause and effect relationships that affect cattle productivity and profitability.
3. The challenges confronting the beef industry.
4. The biology, care, health, and management of cattle.
5. Cattle breeds and factors to consider when choosing a particular breed for a production system.

Marketable Skills for Department of Animal Science:

1. Knowledge of techniques and equipment for planting, growing, and harvesting food products (both plant and animal) for consumption, including storage/handling techniques.
2. Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.
3. Understanding the implications of new information for both current and future problem solving and decision-making.
4. Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
5. Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions. Communicating finding in both oral and written form at a level appropriate for the needs of the audience.

Departmental Projected Learning Outcomes:

1. Demonstrate the basic skills of interpreting research data gathered in an agricultural context.

2. Apply critical thinking skills to mitigate potential challenges in diverse animal sciences and related agricultural industries.
3. Develop problem-solving skills, and demonstrate the ability to communicate through written, spoken, and graphical methods.

Textbook: Not required.

Exams:

There will be two midterms and a final exam. Exams will cover lecture materials and readings. The final exam will only cover material presented after the second midterm.

Laboratory exercises:

There will be laboratory assignments and/or quizzes-exams that will total 100 points.

Grading:

Midterm 1	100 points
Midterm 2	100 points
Laboratory exercises	100 points
Final	<u>100 points</u>
Total	400 points

Grade assignment: A =100-90; B = 89-80; C= 79-70; D = 69-60 and F= < 60.

Exam:

Midterm 1 – Friday, February 24.
 Midterm 2 – Friday, April 7.
 Final – Friday, May 12.

16 week calendar (subject to change)

<u>Week</u>	<u>Presentation Order of Topics:</u>
1-2	An Overview of the U.S. Beef Industry.
3-4	Cattle Breeds
5	Review and Midterm 1.
6	Herd Health- Stress and Disease
7	Cattle Behavior, Facilities, and Equipment
8	Cow-calf Management Decisions.
9	Spring Break.
10	Yearling-Stocker Management Decisions.
11	Review and Midterm 2.

12-13	Marketing Systems
14	Sexing Technology, Seedstockers
15	Retail Beef Products and Consumers
16	Review and Final Exam

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