

## ANIMAL SCIENCE 3402 BEEF CATTLE PRODUCTION AND MANAGEMENT

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

Spring 2022  
Lecture: MWF  
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 findings 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 25.  
 Midterm 2 – Friday, April 1.  
 Final – Friday, April 29.

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	Retail Beef Products and Consumers.
5	Review and Midterm 1.
6	Management Decisions for Seedstock Breeders.
7	Commercial Cow-Calf Management Decisions.
8	Spring Break.
9	Yearling-Stocker Management Decisions.
10	Review and Midterm 2.
11	The Marketing System.

12-13	Cattle Breeds.
14	Herd Health.
15	Cattle Behavior, Facilities, and Equipment.
16	Review and Final Exam

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