SUBJECT AREA AND COURSE NUMBER: ASCI 111

COURSE TITLE: BEEF PRODUCTION & MANAGEMENT

Units: 3.5

TOP Code: 0102.00 - Animal Science

Cross-Listed Courses:

CATALOG COURSE DESCRIPTION:

A study of the principles and practices of purebred and commercial beef cattle production throughout the world, United States and California. Emphasis to be placed on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing and record-keeping to ensure scientifically-based management decisions and consumer product acceptance as applied to beef cattle.

REQUISITES:

NONE

FIELD TRIP REQUIREMENTS: Not Required

LECTURE HOURS PER WEEK: 3

TOTAL LECTURE HOURS PER SEMESTER: 52.5

LAB HOURS PER WEEK: 1

TOTAL LAB HOURS PER SEMESTER: 17.5

ACTIVITY HOURS PER WEEK:

TOTAL ACTIVITY HOURS PER SEMESTER:

TOTAL HOURS PER WEEK: 4

TOTAL CONTACT HOURS PER SEMESTER: 70

GRADING: S - Standard Grading A-F

REPEATABLE: A - Not designed as repeatable

TRANSFERABLE:

*Approved* CSU BA Transferable (1-199 level)

YES

METHODS OF INSTRUCTION:

Methods of instruction may include, but are not limited to, the following:

* Laboratory
* Lecture and/or Discussion

METHODS OF EVALUATION:

A student's grade will be based on multiple measures of performance unless the course requires no grade. Multiple measures may include, but are not limited to, the following:
### COURSE TOPICS:

**Outline Of Topics:**

The following topics are included in the framework of the course but are not intended as limits on content. The order of presentation and relative emphasis will vary with each instructor.

A. The Beef Cattle Industry  
B. Systems of Production  
C. Establishing the Beef Herd  
D. Beef Cattle Management Practices  
E. Beef Cattle Genetics  
F. Beef Cattle Nutrition  
G. Herd Health  
H. Marketing Beef Cattle  
I. Issues and Regulations in the Beef Cattle Industry

### OUTCOMES:

#### Course Objectives

The main concepts for this course will ask students to...

1. Discuss the history and development of the beef industry.  
2. Identify beef breeds and their adaptability to climatic conditions and types of operations.  
3. Describe the common systems of beef production.  
4. Explain the principles of genetics in terms of form and function in the beef industry.  
5. Define the relationship between the consumer, packer, and retailer in the commercial beef industry.  
7. Explain the principles involved with ruminant nutrition in beef production.  
8. Demonstrate the use of computer management systems to efficiently manage beef cattle operations.  
9. Discuss animal welfare issues, environmental concerns and the beef cattle quality assurance program.  
10. Discuss career opportunities and requirements for successful employment.  
11. Identify cultural influences to the beef industry.

#### Student Learning Outcomes

Given the theory that nutrition is key to successful animal production, students will be able to explain the principles involved with ruminant nutrition. Students ability to trace the digestibility of given feed ingredients down to the molecular level will show competency at this objective.

- Skill demonstrations  
- Problem solving assignments or activities  
- Multiple choice tests  
- Short answer quizzes or exams

Given that adaptability to climate is necessary in a beef production scenario, students will be able to identify beef breeds and their adaptability to climatic conditions and types of operations. Students will show competency in this objective by correctly identifying breeds and their environment for greatest production potential as outlined by the beef industry.

- Skill demonstrations  
- Problem solving assignments or activities  
- Multiple choice tests  
- Short answer quizzes or exams

Given that understanding complex relationships is essential to production management, students will be able to explain the relationships between the consumer, packer and retailer in the commercial beef industry. The student's ability to correctly identify said relationship in a problem-solving exercise will show their competence in this objective.

- Skill demonstrations  
- Problem solving assignments or activities
Multiple choice tests
Short answer quizzes or exams

Given the theory that modern production facilities will use a variety of technology, students will be able to use computer management systems to efficiently manage beef cattle operations. Students gain specific knowledge on intricate software used by the beef cattle industry. Expertise using this software will give the students vital experience in this industry.

- Skill demonstrations
- Problem solving assignments or activities
- Multiple choice tests
- Short answer quizzes or exams

Given the fundamental concepts of beef production today rely heavily on breeding quality stock, students will be able to explain the concepts and principles of genetics in terms of form and function in beef cattle. Students mastery of this objective will be demonstrated by their ability to correctly identify an animal with exemplary genetics for a given production scenario.

- Skill demonstrations
- Problem solving assignments or activities
- Multiple choice tests
- Short answer quizzes or exams

Given that quality beef cattle production must have healthy stock, students will be able to identify common diseases and parasites and the current methods of prevention and treatment. By interpreting health management requirements and current protocols on herd health, students will show their ability in this objective.

- Skill demonstrations
- Problem solving assignments or activities
- Multiple choice tests
- Short answer quizzes or exams

Institutional Outcomes

1. Communicate effectively for a given purpose within the specific context of a communication event.
2. Use appropriate creative and analytic methods to interpret ideas, solve problems, and present conclusions.
3. Locate, evaluate, and use information from a variety of sources to take action or make a decision.

Assignments

Lab Content:
Lab Content

In a typical lab, students will perform the following practice: castration, branding, de-horning, vaccination and de-worming.

TEXTS AND SUPPLIES:
Textbooks may include, but are not limited to:

TEXTBOOKS:

MANUALS:

PERIODICALS:

MATERIALS FEE: $0

OTHER: