South Central College

ANSC 1100  Livestock Production Principles

Course Outcome Summary

Course Information

Description
This course covers animal production history and economic impact, breed development, animal anatomy and physiology, animal production features, growth and lactation physiology, environmental animal production factors and animal research. This course also provides a comprehensive introduction to the fundamental principles of animal science based on biological and scientific aspects of animals that serve mankind. (3 lecture credits)

Total Credits 3
Total Hours 48

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. **Describe the U.S. livestock industry**
   Learning Objectives
   Outline animal domestication
   Explain livestock functions in society
   Understand affiliated livestock industries

2. **Explain nutrients and their sources**
   Learning Objectives
   Describe scientifically major classes of nutrients
   Explain digestion, metabolism, and nutrient absorption

3. **Explain livestock digestive systems**
   Learning Objectives
   Compare the ruminant digestive system with ration feedstuffs for ruminants
   Compare the non-ruminant digestive system with ration feedstuffs for non- ruminants, including poultry and horses

4. **Analyze feeder animal growth and carcass composition**
   Learning Objectives
   Describe approved feeder livestock practices
   Evaluate animal growth and composition
5. **Describe livestock reactions to environmental stimuli**

   **Learning Objectives**
   - Describe (select) animal adaptations to environments
   - Explain and defend multiple approaches to animal health care
   - Synthesize animal reaction and behavior
   - Describe zoonosis, other livestock disease concerns, and biosecurity measures

6. **Illustrate management practices for livestock reproduction**

   **Learning Objectives**
   - Identify critical nutrients and production practices for reproduction
   - Outline lactation physiology through milk making and letdown process
   - Describe colostrum immunological effects

7. **Summarize meat animal breeds, evaluation, and processing**

   **Learning Objectives**
   - Identify major livestock breeds
   - Overview animal evaluation for slaughter
   - Relate meat processing with meat consumption

8. **Compare and contrast livestock species production systems**

   **Learning Objectives**
   - Describe wool and fiber production systems
   - Describe swine production systems
   - Describe sheep production systems
   - Describe the dairy production system
   - Describe milk product handling and marketing industry
   - Describe the equine industry
   - Describe poultry and egg industry
   - Describe specialty livestock trends

9. **Outline livestock production hazards**

   **Learning Objectives**
   - Explain livestock hazards and corresponding safety measures

**SCC Accessibility Statement**

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Additional information and forms can be found at: [www.southcentral.edu/disability](http://www.southcentral.edu/disability)

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