

I. COURSE INFORMATION

- A. Agriculture 103 Principles of Animal Science
- B. 3 credit hours
- C. Taylor and Fields. *Scientific Farm Animal Production: An Introduction to Animal Science*. 12th ed. New Jersey: Prentice Hall, 2020
- D. Prerequisites: None

II. COURSE DESCRIPTION

This course covers general principles relative to animal agriculture including types, purpose, and products of livestock; principles of selection, nutrition, and reproduction; management and marketing; and a survey of the livestock industry.

III. LEARNING OUTCOMES

- A. Discuss the importance and scope of animal agriculture
- B. Describe the production and consumption of meat in the U.S.
- C. Describe the marketing of livestock and meat
- D. Discuss the grades and uses of dairy, poultry, and wool products
- E. Describe the reproductive systems of farm animals
- F. Discuss reproductive management in animals
- G. Relate the physiology of milk production and egg laying
- H. Compare monogastric and ruminant digestive systems
- I. Discuss nutrient requirements for animals
- J. Discuss animal growth and adaptation to their environment
- K. Discuss animal health and disease
- L. Understand basic principles of inheritance
- M. Discuss methods used to select animals
- N. Describe systems of breeding animals
- O. Identify the major breeds of livestock in the U.S.

IV. MAJOR CONTENT AREAS

- A. Animal contributions to human needs
- B. Animal reproduction anatomy, physiology, and management
- C. Animal digestive systems, nutrients, growth, and health management
- D. Animal inheritance and improvement
- E. Major breeds of livestock

V. ASSIGNMENTS (may include but are not limited to)

- A. Unit quizzes
- B. Assignments related to class discussion
- C. Section exams
- D. Final comprehensive exam
- E. Field trips to college farm laboratory and nearby animal industries

VI. EVALUATION METHODS (may include but are not limited to)

- A. Assignments and activities
- B. Quizzes
- C. Section exams
- D. Comprehensive final