**Course Title:** Principles of Animal Science. (3) I, II.

**Course Description:**
Basic principles which apply to animal agriculture; survey of the industry; types, purposes, and products of livestock; principles of breeding, selection, nutrition, lactation, reproduction, management, and marketing. Three hours rec. a week. ASI 105, 106 and 107 are companion courses. ASI-102-0-0104.

**Student Performance Objectives:**

Students should be able to:

- Interpret the role of animal agriculture in feeding mankind.
- Define terms common to the animal industries discussed in class.
- List examples of interrelationships between animal agriculture and other segments of our society.
- Discuss how practices and products of animal agriculture affect student’s quality of life.
- Identify the basic concepts of genetics, nutrition, physiology, marketing, and management as they relate to the animal agriculture.
- Differentiate among the various segments of animal agriculture.
- Discuss the most common management systems for the species of animals and poultry found in American agriculture.
- Name the most common breeds within each specie.

**Instructor:** David A. Nichols
I. Importance of animal agriculture in our economy.
II. Animal products
III. Modes of inheritance
IV. Animal breeding
V. Development of breeds
VI. Principles of animal physiology
VII. Principles of animal nutrition
VIII. Management systems
IX. Animal health
X. Marketing animals and animal products
XI. Breeds and management systems for cattle (beef and dairy), swine, horses, sheep, and poultry

Evaluation Procedures:

Course grade is derived from test scores. Each instructor explains grade standards to class during first class meeting.

Text and Reference Material:

Recommended text is “Animal Science and Industry” by Acker.

Sequencing:

This course is the basic introductory course in the animal sciences.

Supplemental Information:

Animal Sciences courses 105, 106 and 107 are companion courses.