DEPT. AGRI COURSE NUMBER: 1101

NUMBER OF CREDITS: 3 Lecture: 2 Lab: 1 OJT 0

Course Title:
Introduction to Animal Science

Catalog Description:
Introduction to Animal Science provides students an introduction to animal science with an emphasis on the fundamental concepts of physiology, nutrition, animal breeding and management as applied to beef cattle, dairy cattle, poultry, sheep and swine production.

Prerequisites or Necessary Entry Skills/Knowledge:
None

FULFILLS MN TRANSFER CURRICULUM AREA(S)
Goal 1: Communication: _____by meeting the following competencies:

Goal 2: Critical Thinking: _____by meeting the following competencies:

Goal 3: Natural Sciences: _____by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: _____by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: _____by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: _____by meeting the following competencies:

Goal 7: Human Diversity: _____by meeting the following competencies:

Goal 8: Global Perspective: _____by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: _____by meeting the following competencies:

Goal 10: People and the Environment: _____by meeting the following competencies:
### Topics to be Covered

- Overview of Livestock Industry (Beef, Swine, Sheep, Poultry, Dairy)
- Red Meat Products
- Poultry and Egg Products
- Milk and Dairy Products
- Marketing Livestock
- Animal Breeding and Reproduction
- Animal Nutrition
- Animal Health
- Managing Production Livestock

### Student Learning Outcomes

- Explain the role of animal agriculture in the U.S. and global economies.
- Describe the global distribution of livestock.
- Explain the nutritive value of animal food products and trends in consumption.
- Classify the market classes and grades of livestock.
- Differentiate the breeds of livestock and importance of genetics in livestock improvement.
- Explain nutrient requirements for various livestock operations and classify feedstuffs.
- Identify the primary male and female reproductive structures and their functions.
- Describe the structures and functions of monogastric and ruminant digestive systems.
- Describe the approaches of animal health and role of quality assurance in livestock production.

### Is this course part of a transfer pathway:

- Yes □
- No ☒

Revised Date: 6/2021