

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

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 <input type="checkbox"/> No <input checked="" type="checkbox"/>

Revised Date: 6/2021