MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE  
COURSE OUTLINE

Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Collegewide Curriculum Committee.

DEPT. Agriculture COURSE NO. 1101

NUMBER OF CREDITS: 3

COURSE TITLE  Introduction to Animal Science

CATALOG DESCRIPTION Provides students with 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.

AUDIENCE  Agriculture students

FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)
Area  : by meeting the following competencies:
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Area  : by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: None

LENGTH OF COURSE: 1 semester

THIS COURSE IS USUALLY OFFERED:
Every other year [ ] fall [X] spring [ ] summer [ ] undetermined [ ]

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT:
1. To appreciate the role of animal agriculture in providing food and fiber and the challenge livestock has for modern agriculture.
2. To describe the various disciplines which are especially pertinent to the broad field of animal science and to stimulate the student to seek further information in areas of particular interest to them.
3. To discover the value of livestock products -- meat, dairy, work, eggs, and poultry meats - in composition, utilization and quality production.
4. To extend the knowledge of the breeds of livestock.
5. To develop an understanding of the importance of genetics in livestock improvement.
6. To consider the physiological mechanisms within the animal's body and the relationship to maintenance, growth, reproduction and production.
7. To develop a basic understanding of nutrition in preparation for "Principles of Animal Nutrition" and incorporate this with basic management of livestock.
8. To identify market grades of livestock and livestock products and the general marketing problems of these products in preparation for "Agriculture Marketing and Prices."

2) THINKING SKILLS: The student's thinking will improve as they gain knowledge about livestock as to how they are alike and different, how they reproduce, grow and produce.

3) COMMUNICATIONS SKILLS: The student's communication will improve as the student learns the different parts, and functions of these parts, of the animals. They will know the terminology involved, etc.

4) HUMAN DIVERSITY: The student will understand how each animal is similar in its makeup and how they function, which in many ways is the same.

TOPICS TO BE COVERED:
1. Animal science overview of species
2. Red meat products
3. Poultry and egg products
4. Milk and dairy products
5. Marketing livestock
6. Identify male and female reproductive organs and functions
7. Animal breeding
8. Nutrition
9. Growth
10. Animal health
11. Managing production livestock and dairy

LIST OF EXPECTED COURSE OUTCOMES: See above under goals

LEARNING/TEACHING TECHNIQUES used in the course are:

- Collaborative Learning
- Problem Solving
- Student Presentations
- Interactive Lectures
- Creative Projects
- Individual Coaching
- Lecture
- Films/Videos/Slides
- Demonstrations
- Other (describe below)
- Lab
- Field trips

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- Reading
- Tests
- Individual Projects
- Oral Presentations
- Worksheets
- Collaborative Projects
- Textbook Problems
- Papers
- Portfolio
- Group Problems
- Term Paper
- Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES:

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise
their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office. **The information in this course outline is subject to revision**

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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