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. Lamb and Wool                      COURSE NO. LWMP1101

NUMBER OF CREDITS: 2

COURSE TITLE: Sheep Genetic Concepts

CATALOG DESCRIPTION: This course is a study of basic genetic concepts; genetic improvement principles; breeds of sheep and inherited traits or defects. Students will also become familiar with developing mating systems to maximize the benefits of genetic principles.

AUDIENCE: Sheep Producers

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

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: None

LENGTH OF COURSE: Individual and classroom instruction scheduled throughout the semester.

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

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

1) ACADEMIC CONTENT: The student will learn genetic concepts and mating systems to be used in a sheep operation.

2) THINKING SKILLS: The student will demonstrate appropriate communication skills with genetic consultants.

3) COMMUNICATIONS SKILLS: The student will demonstrate appropriate communication skills with genetic consultants.

4) HUMAN DIVERSITY: The student will gain awareness of their feelings toward people of different cultures, value systems and socioeconomic status.
TOPICS TO BE COVERED: Genetic concepts; mating systems; estimating genetic value; domestic breeds of sheep; economically important traits; and genetic defects.

LIST OF EXPECTED COURSE OUTCOMES:
1. Describe methods of estimating genetic value.
2. Develop awareness of economically important genes.
3. Develop awareness of common genetic defects.
4. Identify common crossbreeding systems.
5. Describe principles of mating systems.
6. Describe genetic improvement principles.
7. Develop awareness of domestic breeds of sheep.
8. Describe basic genetic concepts.

LEARNING/TEACHING TECHNIQUES used in the course are:
- Collaborative Learning
- Student Presentations
- Creative Projects
- Lecture
- Demonstrations
- Lab
- Problem Solving
- Interactive Lectures
- Individual Coaching
- Films/Videos/Slides
- Other (describe below)

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
- Reading
- Oral Presentations
- Textbook Problems
- Group Problems
- Other (describe below)
- Tests
- Worksheets
- Papers
- Term Paper
- Individual Projects
- Collaborative Projects
- Portfolio

EXPECTED STUDENT LEARNING OUTCOMES:
1. Understand basic genetic concepts.
2. Develop crossbreeding plan.
3. Identify common genetic defects.

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.

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.

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.