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.: 2212

NUMBER OF CREDITS: 3

COURSE TITLE: Corn & Soybean production

CATALOG DESCRIPTION: Explores practices used in corn and soybean production, variety and hybrid selection, seed bed preparation and planting, fertilizer programs, water management, weed control, harvesting, storage and maintenance of agricultural equipment.

AUDIENCE: Post Secondary Agriculture Students

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area : by meeting the following competencies:
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PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:

LENGTH OF COURSE: One semester

THIS COURSE IS USUALLY OFFERED:
Every other year ☑ fall ☐ spring ☐ summer ☐ undetermined ☐

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

1) ACADEMIC CONTENT:
1. To state ways in which a given climate determines management decisions.
2. To outline a primary and secondary tillage program which optimizes soil structure, weed control, water relations and crop yield.
3. To select a crop, variety or hybrid suitable for a given situation and determine optimal planting dates, rates and methods for a specific soil climate and moisture condition.
4. To systematically determine the nature of observed field problems and prescribe an appropriate course of action.
5. To outline a weed control program (including herbicide selection) for a specific crop, soil and weed situation and to recognize and give recommendations for combating field insects and disease problems.
6. To determine proper methods for selecting a cost effective fertility program.

2) THINKING SKILLS:
1. Selection of chemicals, determining rate of application and cost to use chemicals.
2. Determine the tillage system to use.
3. Determining how corn and soybeans fit in cropping plan.
3) COMMUNICATIONS SKILLS:
   1. Written tests
   2. Group work
   3. Class discussion

4) HUMAN DIVERSITY:
   1. To develop an appreciation of the use of corn and soybeans in sustaining human life throughout the world.

TOPICS TO BE COVERED:
   1. Climate and Weather
   2. Corn origin, history and use
   3. Profitable corn production
   4. Profitable corn harvesting
   5. Profitable soybean production
   6. Soybean growth types
   7. Small grain production
   8. Forage management
   9. Pest management, weeds
   10. Pest management, insects & diseases

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)
- [x] Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- [x] Reading
- [ ] Tests
- [x] Individual Projects
- [ ] Oral Presentations
- [x] Worksheets
- [x] Collaborative Projects
- [ ] Textbook Problems
- [ ] Papers
- [ ] Portfolio
- [x] Group Problems
- [x] 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.