Faculty members 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 Academic Affairs and Standards Council.

DEPT. AGRI COURSE NUMBER: 2212

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

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<th>Course Title:</th>
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<td>Corn and Soybean Production</td>
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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 marketing.

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
- Climate and Environment
- Tillage, Planting, Harvest Practices
- Hybrid Selection
- Deficiency Symptoms
- Variables of Yield
- Plant Physiology
- Fertility
- Corn and Soybean Development
- Yield Calculations
- Harvest and Storage
- Pest and Pesticide Control

Student Learning Outcomes
- Select hybrids to meet marketing needs.
- Calculate Growing Degree Units
- Describe advantages and disadvantages of tillage, planting, harvesting systems.
- Identify primary insect pests of corn and soybeans and their control.
- Develop a fertility plan.
- Identify growth stages of corn and soybeans.
- Calculate yield
- Describe drying and storage systems.
- Calculate spray solutions.
- Describe impacts of biological and economic yield.
- Identify corn and soybean nutrient deficiencies.

Is this course part of a transfer pathway: Yes ☐ No ☒

- Revised Date: 7-15-2020