

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

**DEPT. AGRI**

**COURSE NUMBER: 2212**

**NUMBER OF CREDITS: 3**

**Lecture: 3 Lab: 0 OJT: 0**

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| <b>Course Title:</b>        |
| Corn and Soybean Production |

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| <b>Catalog Description:</b>  |
| Corn and Soybean Production 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. |

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| <b>Prerequisites or Necessary Entry Skills/Knowledge:</b> |
| 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:

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| <b>Topics to be Covered</b>          |
| 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           |

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| <b>Student Learning Outcomes</b>        |
| Select hybrids to meet marketing needs. |

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| 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.                                |

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| <b>Is this course part of a transfer pathway:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
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-Revised Date: 6/2021