

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

**DEPT. AGRI**

**COURSE NUMBER: 2205**

**NUMBER OF CREDITS: 3**

**Lecture: 3    Lab: 0    OJT: 0**

<b>Course Title:</b>
<u>Introduction to Precision Management Software</u>

<b>Catalog Description:</b>
Introduction to Precision Management Software is intended to serve as an introduction to several precision management software packages that are used to manage farming decisions and implement site specific crop management.

<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:

<b>Topics to be Covered</b>
Role of spatial management software in agriculture
Basics of geographic information systems
Management trees
Reading field display files
Importing/Exporting shape files
Reading Legends
Soil Sampling
Crop Scouting
Layering
Prescriptions

<b>Student Learning Outcomes</b>
Demonstrate use of spatial management software programs.
Develop management decisions from field data.

Collect infield information such as soil types, soil grids, crop scouting, and yield data.
Create variable rate application (VRA) prescriptions.
Operate a mobile computer.
Import field data from field displays.
Define a field, create a boundary, and develop a soil grid
Layer mapping features.

<b>Is this course part of a transfer pathway:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Revised Date: 6/2021