DEPT.   AGRI    COURSE NUMBER:   2202

NUMBER OF CREDITS:  3   Lecture:  2  Lab:  1  OJT  0

Course Title:  Weed Science

Catalog Description:
Weed Science relates the principles of weed science to weed management situations encountered in the field. Methods of weed control, modes of action of herbicides, weed identification, and herbicide interactions will be emphasized.

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

- Biology of Weeds and Seeds
- Herbicides and the Plant
- Herbicides and the Soil
- Selectivity of Herbicides
- Formulations, Drift, and Calculate Spray Solutions.
- Application Equipment
- Chemical Families and Modes of Action
- Herbicide Resistance
- Best Management Practices
- Weed Identification in our Region
- Herbicide symptoms
- Herbicide Labels

### Student Learning Outcomes

- Describe weed characteristics and why they are persistent.
- Classify weeds according to their life cycle.
- Identify parts of the plant structure and their functions.
- Calculate spray solutions.
- Explain the evolution of herbicides.
- Describe movement of herbicides in plants.
- Categorize herbicides according to mode of action.
- Classify herbicides according to selectivity.
- Describe soil-herbicide interaction.
- Identify the parts of a herbicide label.
- Identify common weeds in our region.
- Describe best management practices.

### Is this course part of a transfer pathway?

- Yes ☐
- No ☒

Revised Date: 6/2021