

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

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.
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Classify weeds according to their life cycle.

Identify parts of the plant structure and their functions.
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Calculate spray solutions.

Explain the evolution of herbicides.

Describe movement of herbicides in plants.
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Categorize herbicides according to mode of action.
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Classify herbicides according to selectivity.

Describe soil-herbicide interaction.

Identify the parts of a herbicide label.
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Identify common weeds in our region.

Describe best management practices.

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