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: 1125**

**NUMBER OF CREDITS:** 2  **Lecture:** 2  **Lab:** 0  **OJT 0**

<table>
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<tr>
<th>Course Title:</th>
<th>Custom Application</th>
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**Catalog Description:**
Designed for the student pursuing a career in crop production or agronomy services area. The student will receive hands-on instruction in the safe operation and calibration of custom sprayers and spreaders. The student will be prepared for and issued the Minnesota State Custom Application exams for categories (Core-A, Field Crop Pest- C, Seed Treatment–H) - leading to licensure in those areas.

**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
- Pest Management
- Federal Pesticide Laws
- Pesticide Labeling
- Pesticide Formulations
- Pesticide Hazards and First Aid
- Personal Protective Equipment
- Pesticides in the Environment
- Transportation, Storage, and Security
- Weed Management
- Insect Management
- Disease Management
- Seed Treatment

### Student Learning Outcomes
- Identify and demonstrate safe handling techniques in mixing, loading and applying pesticides commercially.
- Identify components of custom application equipment.
- Calculate application rates for crop and seed pesticides.
- Identify and apply key components of integrated pest management
- Describe product labeling and application records.
- Identify crop pests (Weeds, Insects, Diseases)
- Demonstrate personal protective equipment.
- Describe Federal and State pesticide laws.
- Explain pesticide formulations.
- Complete commercial applicators exam.

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

Revised Date: 7-15-2020