DEPT. AGRI  COURSE NUMBER: 1102

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

Course Title:
Principles of Agronomy

Catalog Description:
Principles of Agronomy explores the principles and practices of plant and related sciences as applied to increasing productivity and improvement of field crops. Emphasis is on crop selection and improvement through the breeding of crop varieties, seeds and seedlings, crop growth and development, crop production hazards, and the harvest and storage of field crops.

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

- Plant Science and Human Welfare
- Origin and Classification of Field Crops
- Adaptation and Distribution of Field Crops
- Varietal Selection and Improvement
- Crop Propagation
- Crop Nutrition
- Maturation, Harvest, and Storage
- Crop Pests

Student Learning Outcomes

- Identify plant anatomy and functions.
- Classify and identify field crop plants and seeds.
- Explain the impact of food, fuel, and fiber crops to humankind and their distribution.
- Describe plant physiology systems and how they relate to plant growth and environment.
- Explain plant breeding systems and genetic improvement.
- Describe crop production systems.
- Collect and Identify crop pests and control methods.
- Analyze crop nutrition and its relationship with soil fertility.
- Describe proper harvest timing and storage techniques.

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

Revised Date: 6/2021