COURSE OUTLINE

DEPT.  ELEC  COURSE NUMBER:  1210

NUMBER OF CREDITS:  5  Lecture:  2  Lab:  3

Course Title:
Residential & Farm Wiring

Catalog Description:
Introduces blueprint reading for residential wiring. Describe electrical safety and general safety. Discusses National Electrical Code articles on branch circuits, feeders, grounding, services, and overcurrent protection for residential and farm wiring.

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:

Prerequisites or Necessary Entry Skills/Knowledge:
ELEC 1200 Residential Wiring 1

Topics to be Covered
Wiring methods for residential and farm wiring
Grounding and bonding
### Student Learning Outcomes

- Apply National Electrical Codes
- Describe branch circuit requirements
- Install PVC conduit
- Install lighting fixtures
- Calculate farm yard services
- Calculate box sizes
- Describe bonding requirements
- Describe grounding requirements
- Describe sub panel requirements
- Install UF cable

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

- Yes [ ]
- No [X]

Revised 2-29-2020