Course Title: National Electric Code IV

Catalog Description:
Examine the National Electrical Code Requirements for Commercial and Industrial installations. Determine grounding and bonding requirements. Examine definitions and installation concerns in hazardous locations.

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
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 1205
### Topics to be Covered (General)

- Raceways and materials
- Equipment grounding and bonding
- Hazardous Locations

### Student Learning Outcomes

- Determine equipment grounding conductor size
- Determine grounding electrode conductor size
- Examine IMC and rigid metal raceways
- Calculate pull box sizing
- Evaluate Class I location definition and requirements
- Evaluate Class II location definition and requirements
- Evaluate Class III location definition and requirements

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

- Yes ☐
- No ☒

*If yes, please list the competencies below*

Revised Date: 02/14/2020