# National Electric Code I

## Catalog Description:
National Electric Code I provides insight into an understanding of many of the technical rules of the National Electrical Code (NEC). Topics included are Minnesota licensing laws, definitions, requirements and calculations for electrical installations, grounding conductors, branch circuits, feeders and services. Other topics also included are overcurrent protection, grounding and bonding, wiring methods, temporary wiring and conductors for general wiring.

## Prerequisites or Necessary Entry Skills/Knowledge:
None

## 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:

## Topics to be Covered
- National Fire Protection Association (NFPA) - National Electrical Code 70
- License/appeals regulations

## Student Learning Outcomes
- Describe license, inspection, enforcement, and appeals regulations and procedures.
- Define branch circuits, feeders, and services requirements.
- Describe overcurrent protection requirements.
- Describe grounding and bonding requirements.
Describe general and temporary wiring methods requirements.
Determine conduit, raceway, wireway, and tray cable requirements.
Determine conductor ampacity.

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<tr>
<th>Is this course part of a transfer pathway:</th>
<th>Yes ☐</th>
<th>No ☒</th>
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| *If yes, please list the competencies below

Revised Date: 1/1/2022