Course Title: 
Low Voltage

Catalog Description:
Low Voltage investigates low voltage circuits and controls along with data, phone, CATV, fire alarm and home security methods and materials. This course will also cover the rules and regulations of installation and termination of communication wire and components.

Prerequisites or Necessary Entry Skills/Knowledge:
ELEC1100 or ELCO 1110

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
- Communication circuits
- Low voltage control circuits
- Community Antenna Television
- Telephone systems
- Fire alarm systems

Student Learning Outcomes
- Identify parts and cables for low voltage systems
- Terminate low voltage connections
- Describe CATV systems
- Describe communication systems
<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Describe fire alarm and security systems</td>
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<tr>
<td>Wire fire alarm systems</td>
</tr>
<tr>
<td>Wire low voltage control circuits</td>
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**Is this course part of a transfer pathway:** Yes ☐ No ☒

Revised Date: 02/14/2020