Course Title:
Low Voltage

Catalog Description:
Investigate 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.

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:
ELCO 1100 or ELCO 1110
### 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
- Describe fire alarm and security systems
- Wire fire alarm systems
- Wire low voltage control circuits

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

Revised Date: 02/14/2020