MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT. CST **COURSE NUMBER: 2108**

NUMBER OF CREDITS: 3 **Lecture: 2 Lab: 1 OJT: 0**

Course Title:
Structured Communication Systems

Catalog Description:
Structured Communication Systems (SCS) students will gain practical experience in implementing many concepts in SCS by installing and terminating various cabling types, configuring voice/data and fire/alarm systems, and other equipment. The student will be able to install various SCS; select and operate the appropriate test equipment to perform test procedures perform routine maintenance; perform minor troubleshooting procedures and repairs; identify and describe industry standards, protocols and safety procedures relating to structured communication systems.

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
Review of Articles in National Electrical Code relating to low Voltage
Grounding and Bonding
Wiring and Protection
Wiring methods and material
Equipment for general use in low voltage
Special Occupancies, equipment and conditions

Communication systems

Student Learning Outcomes
Identify various cable types and terminations.
Configure voice/data systems.
Describe real-world structured communications implementations.
Identify cable qualities from test results and cable specifications.
Install various SCS.
Select and operate the appropriate test equipment to perform test procedures.
Perform routine maintenance.
Perform minor troubleshooting procedures and repairs.
Identify and describe industry standards, protocols and safety procedures relating to structured communication systems.

Is this course part of a transfer pathway: Yes ☐ No ☒
***If yes, please list the competencies below**

Revised Date: 3/29/2022