MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Collegewide Curriculum Committee.

DEPT. Robotics COURSE NO. ROBT 1135

NUMBER OF CREDITS: 2

COURSE TITLE: Electromechanical Theory

CATALOG DESCRIPTION: Students have an opportunity to develop skills in designing, wiring, troubleshooting, and operation of electrical control circuits.

AUDIENCE

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:

LENGTH OF COURSE: (2 C/ 0 lect/pres, 2 lab, 0 other)

THIS COURSE IS USUALLY OFFERED:

Every other year □ fall spring X□ summer □ undetermined □

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The student will receive the knowledge to understand basic electrical control circuits

2) THINKING SKILLS: The student will systematically solve electrical control problems

3) COMMUNICATIONS SKILLS: The student will begin to demonstrate appropriate communications both oral and written.

4) HUMAN DIVERSITY: The student will gain self awareness regarding their feelings towards people of different cultures, value systems and socioeconomic status.
TOPICS TO BE COVERED: Students will develop skills in designing, wiring, troubleshooting, and operation of electrical control circuits.

LIST OF EXPECTED COURSE OUTCOMES: The student will understand the basic electrical control circuits, and how the components interact with each other.

LEARNING/TEACHING TECHNIQUES used in the course are:

☐ Collaborative Learning ☑ Problem Solving
☐ Student Presentations ☐ Interactive Lectures
☐ Creative Projects ☐ Individual Coaching
☒ Lecture ☐ Films/Videos/Slides
☒ Demonstrations ☐ Other (describe below)
☒ Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

☐ Reading ☑ Tests ☑ Individual Projects
☐ Oral Presentations ☑ Worksheets ☑ Collaborative Projects
☐ Textbook Problems ☐ Papers ☐ Portfolio
☐ Group Problems ☐ Term Paper
☐ Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES:

To receive accommodations for a documented disability, please contact the campus Student Services Advisor as soon as possible. Students are also encouraged to notify the instructor.

This document can be made available in alternative format by contacting Student Services, the Campus CEOs or calling Minnesota Relay Service at 1-800-627-3529. Reasonable accommodations will be provided upon request for documented disabilities. An Affirmative Action Equal Opportunity Educator/Employer. ADA Accessible.

The information in this course outline is subject to revision.