MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT.  Fluid Power Technology   COURSE NO.  FLPW2170

NUMBER OF CREDITS:  2 credits

COURSE TITLE:  SECOND YEAR TECHNICAL PROJECT

CATALOG DESCRIPTION:  The student will build a project that combines previous training in the different Fluid Power Technology classes. (2 C/ 0 lect/pres, 2 lab, 0 other)

AUDIENCE

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

Area : by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:
(Prerequisite: FLPW2105)

LENGTH OF COURSE:  2 credits (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 use their knowledge of advanced circuits to build their project.
2) THINKING SKILLS: The student will understand the information required to apply the hydraulic, pneumatic and electrical components in their project.
3) COMMUNICATIONS SKILLS: The student will demonstrate both written and oral communication skills.
4) HUMAN DIVERSITY: The student will gain self-awareness regarding the feelings towards people regardless of culture, values or socioeconomic status.

LIST OF EXPECTED COURSE OUTCOMES: The student will be understand and apply the hydraulic, pneumatic and electrical circuits.

LEARNING/TEACHING TECHNIQUES used in the course are:
☐ Collaborative Learning    X   Problem Solving
☐ Student Presentations    ☐ Interactive Lectures
X   Creative Projects      ☐ Individual Coaching
ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

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

TOPICS TO BE COVERED:

1. Size, select, design and draw complete project including: hydraulic, pneumatic, electrical and mechanical drawings
2. Fabricate the project utilizing all previous training in fabrication, electrical, pneumatic, and hydraulic classes.
3. Understand how all of it fits together and the problems of prototype work.
5. Test all aspects of project.

The information in this course outline is subject to revision

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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