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. ELUT COURSE NO. 1105

NUMBER OF CREDITS: 3

COURSE TITLE Blueprint, Schematics, and Transit

CATALOG DESCRIPTION: This course covers the use and interpretation of blueprints, schematic diagrams, and the symbols and abbreviations used in them. This course also covers the fundamentals for set-up, operation and use of a transit mounted on a tripod or other base

AUDIENCE: Persons that would like to major in Powerline and Electric Utility, as technicians or lineman.

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area: by meeting the following competencies:
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PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: No Prerequisites

LENGTH OF COURSE 1 semester

THIS COURSE IS USUALLY OFFERED:
Every other year fall X spring summer undetermined

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

1) ACADEMIC CONTENT: Math, Reading

2) THINKING SKILLS:

3) COMMUNICATIONS SKILLS: Must communicate well with others and communicate problems well that will arise in the field.

4) HUMAN DIVERSITY:

TOPICS TO BE COVERED: Blueprint and Map readings, Electrical drawings, and symbol identifications. How to use and set up a transit.
LIST OF EXPECTED COURSE OUTCOMES:
The student will:
1. Find elevations around the school with use of transit, tripod and measuring stick.
2. Draw the following diagrams: one-line, elementary, highway and wireless.
3. Prepare staking sheets: both single-phase and three-phase
4. Prepare electrical drawings from instructor instructions.
*5. Draw a set of electrical power system substation plans, including plot plan, bus plan and elevation, grounding layout and details, conduit installations details, electrical equipment layout, electrical floor plan and lighting plan.
* depending on time, this goal may only be partially completed.

LEARNING/TEACHING TECHNIQUES used in the course are:
X  Collaborative Learning  X  Problem Solving
    Student Presentations  X  Interactive Lectures
X  Creative Projects       Individual Coaching
X  Lecture                 Films/Videos/Slides
X  Demonstrations          Other (describe below)
X  Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
X  Reading               X  Tests               X  Individual Projects
    Oral Presentations  X  Worksheets          Collaborative Projects
X  Textbook Problems     X  Papers             Portfolio
X  Group Problems        Term Paper
    Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES:

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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