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.

COURSE TITLE: Residential & Farm Wiring  COURSE NUMBER:  ELEC 1210

COURSE DESCRIPTION:
This course covers electrical and general safety. This course introduces blueprint reading for residential wiring. Students will learn to identify parts and their uses. The course will also relate N.E.C. articles on branch circuits, feeders, grounding, services, and over current protection to residential and farm wiring. Also covered will be specialty circuits such as ranges, dryers, air conditioners, etc. using a variety of wiring methods found in residential wiring.
5 Credits (2 Lect/pres, 3 lab, 0 other)

COURSE GOALS:
The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. (*designates a CRUCIAL goal)

1. use fish tape
2. make PVC stub
3. make PVC offset
4. make PVC three bend saddle
5. make PVC back-to-back bend
6. describe PVC heat bending techniques
7. exhibit safe work practices
8. apply National Electrical
9. use power tools
10. identify wiring symbols
11. describe branch circuit requirements
12. describe box types
13. describe cable types
14. install exhaust fan
15. describe wire insulation
16. install UF-B circuits
17. estimate branch circuit wattage
18. identify cable fittings
19. identify special outlet symbols
20. install flexible cable circuits
21. describe lighting fixtures
22. install lighting fixtures
23. describe conductor temperature restrictions
24. install special outlet circuit
25. describe humidistat operation
26. describe outdoor lighting requirements
27. install boxes
28. install three way switch circuits
29. describe underground service requirements
30. describe sub panel requirements
31. describe bonding requirements
32. describe grounding requirements

ATTENDANCE:
Students will be required to attend a minimum of 95% to satisfactorily complete this course.

"This course will cover the characteristics of hazardous wastes and its safe handling, storage, and disposal."

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.

A Member of the Minnesota State Colleges and Universities System
An Affirmative Action Equal Opportunity Educator/Employer