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: Heating & Ventilation Controls     COURSE NUMBER: ELEC 2250

COURSE DESCRIPTION:
This course introduces basic heating and cooling system installation and control. Topics included are installing heating and air conditioning systems, replacing controls, measuring instruments and reading schematics.
3 Credits (2 lect/pres, 1 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. exhibit safe work practices
2. list electric heat advantages
3. describe electric heat system
4. describe baseboard heat circuit requirements
5. install baseboard heat unit
6. describe thermostat control system
7. replace in-unit baseboard thermostat
8. install line-voltage baseboard thermostat
9. install cove heaters
10. connect central electric heat
11. replace furnace motor
12. rough in low-voltage thermostat
13. rough in line-voltage thermostat
14. install low-voltage thermostat
15. describe gas heating system
16. describe gas burner heating system
17. describe gas burner heating system
18. interpret heating schematics
19. list control device functions
20. describe thermocouple
21. replace thermocouple
22. describe oil burner system
23. connect oil burner system
24. connect gas heating system
25. install wall heater
26. describe boiler system
27. connect boiler system
28. describe non-coincidental load
29. describe air conditioning fundamentals
30. describe air conditioning systems
31. describe air conditioning disconnecting means

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

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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