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: National Electric Code I
COURSE NUMBER: ELEC 1205

COURSE DESCRIPTION:
This course will provide insight into an understanding of many of the technical rules of the NEC. Topics included are Minnesota licensing laws, definitions, requirements and calculations for electrical installations, grounding conductors, branch circuits, feeders and services. Other topics also included are overcurrent protection, grounding and bonding, wiring methods, temporary wiring and conductors for general wiring.

2 Credits ( 1 lect/pres, 1 lab, 0 other)

COURSE GOALS:
The following list of course goals will be addressed in the course.
1. describe license/appeals regulations
2. describe enforcement procedures
3. describe inspection rules/regulations
4. describe license requirements
5. define code terms
6. list electrical installation requirements
7. list conductor identification requirements
8. define branch/feeder requirements
9. compute branch circuit/feeder load
10. compute branch circuit number
11. determine outside branch circuit requirements
12. describe service requirements
13. describe overcurrent protection requirements
14. describe grounding/bonding requirements
15. describe surge arrester general requirements
16. describe wiring methods general requirements
17. describe temporary wiring methods
18. determine general wiring conductor requirements
19. determine open wiring requirements
20. determine cable tray system application
21. determine messenger supported wiring requirements
22. determine concealed wiring requirements
23. determine integrated gas spacer requirements
24. determine electrical non-metallic tubing requirements
25. determine power/control-tray cable requirements
26. determine wiring method/material requirements
27. determine extension requirements
28. determine conduit requirements
29. determine raceway/wireway requirements
30. determine busways system requirements
31. determine electrical floor assembly’s requirements
32. determine device/box/conduit bodies/fittings requirements
33. determine cabinets/cutout box requirements
34. determine auxiliary gutter requirements

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

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 also 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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