INDUSTRIAL AND MAINTENANCE WIRING THEORY AND LAB — ELEC 2241

A. Course Description

- Credits: 3.00
- Lecture Hours/Week: 1.00
- Lab Hours/Week: 2.00
- OJT Hours/Week: 0
- Prerequisites:
  - ELEC 1240: Construction Skills and Introduction to Wiring Lab
- Corequisites: None
- MnTC Goals: None

This course covers the use of materials and design of industrial wiring, industrial tools and equipment, service equipment, and maintenance technology. Prerequisites: ELEC1240.

B. Course Effective Dates: 8/25/08 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. calculate electrical loads
2. calculate overcurrent protection
3. calculate short circuit potential
4. coordinate overcurrent protection
5. determine proper luminaires
6. install branch circuits
7. install feeder circuits
8. install special circuits
9. read electrical blue prints
10. understand emergency generator circuits

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted