

# Dakota County Technical College

## ELEC 2241: Industrial and Maintenance Wiring Theory and Lab

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 1

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

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: ELEC1230 and ELEC1240.

**B. COURSE EFFECTIVE DATES:** 08/25/2008 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted