

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

DEPT. ELEC

COURSE NUMBER: 1235

NUMBER OF CREDITS: 2

Lecture: 1 Lab: 1 OJT: 0

### Course Title:

Applied Electrical Calculations

### Catalog Description:

Applied Electrical Calculations performs basic math necessary for solving electrical circuits. Read word problems and decide what they are asking for. Calculate math problems. Calculate Ohm's law formulas.

### Prerequisites or Necessary Entry Skills/Knowledge:

None

### FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- ☐ Goal 1: Communication: By meeting the following competencies:
- ☐ Goal 2: Critical Thinking: By meeting the following competencies:
- ☐ Goal 3: Natural Sciences: By meeting the following competencies:
- ☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- ☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- ☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- ☐ Goal 7: Human Diversity: By meeting the following competencies:
- ☐ Goal 8: Global Perspective: By meeting the following competencies:
- ☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- ☐ Goal 10: People and the Environment: By meeting the following competencies:

### Topics to be Covered

Adding, subtracting, multiply, and dividing math problems

### Student Learning Outcomes

Perform basic math skills

Substitute given values to Equations/Formulas

Solve circuits using Ohm's Law

Calculate (multiply/divide) scientific notations of numbers

Solve problems using algebra

Decide what they are asking for in word problems



**Is this course part of a transfer pathway: Yes**

**No** ☒

\*If yes, please list the competencies below

Revised 2-29-2020