

# North Hennepin Community College

## ENGR 2410: Circuit Analysis

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 0

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

This course requires both of these prerequisites

MATH 1222 - Calculus II (Minimum grade: 1.67 GPA Equivalent)

PHYS 1602 - General Physics II

Corequisites: None

MnTC Goals: None

This course explores direct-current and alternating circuits. Topics include Kirchhoff's Laws; mesh and nodal analysis; Thevenin's and Norton's Theorems; RL, RC, and RLC circuits; sinusoidal steady state analysis of AC circuits; operational amplifiers. A laboratory component is included.

**B. COURSE EFFECTIVE DATES:** 06/15/2021 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

None

### D. LEARNING OUTCOMES (General)

None

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted