## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. ELCO	COURSE NUMBER: 1100
NUMBER OF CREDITS: 3	Lecture: 3Lab: 0 OJT 0
Course Title:	
Electrical Circuits Fundamentals	
Catalog Description:	
	e basic concepts of electricity from DC to AC. es circuits, parallel circuits, capacitance circuits, s, parallel circuits, capacitance circuits, and
Prerequisites or Necessary Entry Ski	lls/Knowledge:
MATH 0092 or placement by multiple measu	Č
<b>FULFILLS MN TRANSFER CURRIC</b> applicable)  Goal 1: Communication: By meeting the following of the followin	ollowing competencies: ollowing competencies: of meeting the following competencies: al Sciences: By meeting the following meeting the following competencies: ollowing competencies:
☐Goal 9: Ethical and Civic Responsibility: By	
☐Goal 10: People and the Environment: By m	eeting the following competencies:
<b>Topics to be Covered</b>	
Ohm's Law	
Series Circuits	
Parallel Circuits	
<b>Student Learning Outcomes</b>	
Define Volts	
Define Amps	
Define Ohms	
Apply Ohm's Law	

Describe Series Circuits	
Describe Parallel Circuits	
Solve Series Circuits	
Solve Parallel Circuits	
Describe Inductance	
Describe Capacitance	
Describe Series Parallel Circuits	
Is this course part of a transfer pathway: Yes □ No ☒	
*If yes, please list the competencies below	

Revised Date: 1/1/2022