MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. ELEC	COURSE NUMBER:1225
NUMBER OF CREDITS: 3	Lecture: 1 Lab: 2 OJT 0
Course Title:	
Electric Motors	
Catalog Description:	
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	n alternating current (AC) and direct current (DC)
_ =	oute motor calculations. Determine the load
characteristics and connections of AC and	DC motors, generators, and alternators.
Prerequisites or Necessary Entry	Claille/Knowledge
ELCO 1100 or ELCO 1110	5Kiiis/Kiiowieuge.
EIII EII I C MN TDANCFED CIID	RRICULUM AREA(S) (Leave blank if not
applicable)	MCULUM AREA(S) (Leuve viunk ij noi
☐Goal 1: Communication: By meeting the	e following competencies:
☐Goal 2: Critical Thinking: By meeting the	he following competencies:
☐Goal 3: Natural Sciences: By meeting th	
☐Goal 4: Mathematics/Logical Reasoning	
☐ Goal 5: History and the Social and Behav	•
competencies:	VIOLET SOLUTION 2 /
☐ Goal 6: The Humanities and Fine Arts: E	By meeting the following competencies:
□Goal 7: Human Diversity: By meeting th	
□Goal 8: Global Perspective: By meeting in	
☐Goal 9: Ethical and Civic Responsibility.	
☐ Goal 10: People and the Environment: B	
-	y incetting the following competencies.
Topics to be Covered	
AC Motors	
DC Motors	
Motor Circuits	
Student Learning Outcomes	
Describe DC motors	
Describe AC motors	
Identify parts of a motor	
Read namenlates on a motor	

Perform tests on motor circuits	
Hookup motors	
Is this course part of a transfer pathway: Yes \Box No	
*If yes, please list the competencies below	

Revised Date: 1/1/2022