MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. ELEC	COURSE NUMBER: 2205
NUMBER OF CREDITS: 4	Lecture: 1 Lab: 3 OJT: 0
Course Title:	
Electric Motor Controls I	
Catalog Description:	
	e use of electrical tools, instruments, safety equipment, anual contactors and motor starters, AC magnetic logic and control devices.
Prerequisites or Necessary Entry	Skills/Knowledge:
ELCO 1100 or ELCO 1110	<u> </u>
☐Goal 5: History and the Social and Beha competencies: ☐Goal 6: The Humanities and Fine Arts: ☐Goal 7: Human Diversity: By meeting t ☐Goal 8: Global Perspective: By meeting	the following competencies: the following competencies: the following competencies: g: By meeting the following competencies: avioral Sciences: By meeting the following By meeting the following competencies: the following competencies: g the following competencies: g: By meeting the following competencies: g: By meeting the following competencies:
Topics to be Covered	
Basic motor control circuits	
Relays, contactors and motor starters	
Timing circuits	
Reversing Circuits	
Student Learning Outcomes	
Identify motor control symbols	
Interpret ladder, schematic and wiring dia	
Describe control relay, contactor and mo	tor starters
Describe motor overload protection	

Describe motor short circuit-ground fault protection
Describe motor jogging circuit
Describe 2-wire and 3-wire control circuits
Describe on-delay and off-delay timing circuits
Describe reversing circuits
Wire 2-wire and 3-wire control circuits
Wire motor jogging circuits
Wire timing circuits
Wire reversing circuits
Troubleshoot motor control circuits

Is this course part of a transfer pathway:	Yes		No	\boxtimes		
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Revised Date: 02/14/2020