MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. ELEC	COURSE NUMBER: 2230
NUMBER OF CREDITS: 4	Lecture: 1 Lab: 3 OJT: 0
Course Title:	
Programmable Logic Controllers	
Catalag Dagarintian	
Catalog Description:	DICU 1 1 1 11 C
	ow PLC's work and provide practical information ng a PLC system. Students will be given a wide and exercises for practice with the PLC.
Prerequisites or Necessary Entry Sk	ills/Knowledge:
ELEC 2205	3
FULFILLS MN TRANSFER CURRI	
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Goal 1: Communication: By meeting the fo	-
Goal 2: Critical Thinking: By meeting the	
Goal 3: Natural Sciences: By meeting the f	
Goal 4: Mathematics/Logical Reasoning: B	
☐Goal 5: History and the Social and Behavio competencies:	ral Sciences: By meeting the following
☐Goal 6: The Humanities and Fine Arts: By	meeting the following competencies:
☐Goal 7: Human Diversity: By meeting the f	
☐Goal 8: Global Perspective: By meeting the	-
☐Goal 9: Ethical and Civic Responsibility: B	
☐Goal 10: People and the Environment: By n	
Edoar To. Teople and the Environment. By h	needing the following competencies.
Topics to be Covered	
Purpose, function and operation of programn	nable logic controllers
Ladder Logic and basic programming	
Tag-based addressing	
Timing and counting functions	
Student Learning Outcomes	
Describe function of a Programmable logic c	
Describe parts of a programmable logic contra	roller
Describe I/O configuration	

Describe discrete and analog I/O
Describe programming languages
Explain timing and counting functions
Program basic control circuits
Program on-delay and off-delay timers
Program counters
Program circuits using tag-based addressing
Troubleshoot programmable logic control circuits

Is this course part of a transfer pathway: Yes □ No ⊠

Revised Date: 02/14/2020