## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. ELEC	COURSE NUMBER: 2220
NUMBER OF CREDITS: 3	Lecture: 1 Lab: 2 OJT: 0
Course Title:	
Industrial Wiring	
Catalog Description:	
Industrial Wiring covers components for inc will learn to design and calculate electrical	dustrial electrical installations and operations. Students loads for an industrial application.
Prerequisites or Necessary Entry	Skills/Knowledge:
ELEC 1220	
FULFILLS MN TRANSFER CUR applicable)  Goal 1: Communication: By meeting the Goal 2: Critical Thinking: By meeting the Goal 3: Natural Sciences: By meeting the Goal 4: Mathematics/Logical Reasoning Goal 5: History and the Social and Behat competencies:  Goal 6: The Humanities and Fine Arts: For Goal 7: Human Diversity: By meeting the Goal 8: Global Perspective: By meeting Goal 9: Ethical and Civic Responsibility Goal 10: People and the Environment: B	ne following competencies: ne following competencies: ne following competencies: ne following the following competencies: ne vioral Sciences: By meeting the following ne following competencies:
<b>Topics to be Covered</b>	
Basic knowledge of threaded conduits and	C
The importance of grounding and bonding	
The selection and sizing of motors and tra	nsformers.
<b>Student Learning Outcomes</b>	
Demonstrate electrical safety.	
Identify National Electrical Code requirement	ents.

Describe conduit types, conduit sizes, and conduit fittings.	
Demonstrate how to cut, ream, and thread conduit.	
Demonstrate how to operate a hydraulic bender.	
Demonstrate bending conduit stubs, off-sets, three-bend saddles, four-bend saddles, and kick	
bend.	
Perform all work in a professional and safe manner.	
Demonstrate how to operate a conduit threading machine.	

Is this course part of a transfer pathway: Yes  $\square$  No  $\boxtimes$ 

Revised 2/20