MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. ELWT	COURSE NUMBER: 1102
NUMBER OF CREDITS: 1	Lecture: 0 Lab: 1 OJT 0
Course Title:	
Hydraulics Lab	
Catalog Description:	
Hydraulics Lab utilizes equipment and applies accourse will also cover advanced circuits and sche	
Prerequisites or Necessary Entry Skills	/Knowledge:
DSL1130 or MECH1103	
FULFILLS MN TRANSFER CURRICU	JLUM AREA(S)
☐Goal 1: Communication: By meeting the follow	· ·
☐Goal 2: Critical Thinking: By meeting the following the	
☐Goal 3: Natural Sciences: By meeting the follo	5 1
☐Goal 4: Mathematics/Logical Reasoning: By me	
☐ Goal 5: History and the Social and Behavioral S	
competencies:	belefices. By fileeting the following
☐Goal 6: The Humanities and Fine Arts: By mee	ting the following competencies:
□Goal 7: Human Diversity: By meeting the follo	
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Goal 8: Global Perspective: By meeting the foll	
Goal 9: Ethical and Civic Responsibility: By me	
☐Goal 10: People and the Environment: By meet	ing the following competencies:
Topics to be Covered	
Parallel and series circuits	
Flow rates and pressure	
Open hydraulic system	
Closed center hydraulic circuit	
Schematics	
Student Learning Outcomes	
Secure a parallel circuit on test trainer	
Secure a series circuit on test trainer	
Adjust flow rates on hydraulic circuits	
Adjust pressures on hydraulic circuits	

Construct an open hydraulic system
Construct a closed center hydraulic circuit
Diagnose multiple types of hydraulic circuits
Interpret schematics and apply interpretation to components on units
Develop schematics related to wind energy
Operate multiple hydraulic systems

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

Revised Date: 10/1/2021