## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. MECH	<b>COURSE NUMBER: 1131</b>
NUMBER OF CREDITS: 1	Lecture: 0 Lab: 1 OJT: 0
Course Title:	
Pneumatic Lab	
Catalog Description:	
Pneumatic Lab provides students with skills in	plumbing troubleshooting and operation of
basic pneumatic circuits.	r
Duonoguisitas on Nagassany Entwy Chil	la/Wnawladaa
Prerequisites or Necessary Entry Skil	is/Knowledge:
Concurrent enrollment with MECH 1120	
FULFILLS MN TRANSFER CURRIC	CULUM AREA(S) (Leave blank if not
applicable)	
Goal 1: Communication: By meeting the foll	owing competencies:
☐Goal 2: Critical Thinking: By meeting the fo	
☐Goal 3: Natural Sciences: By meeting the fol	-
☐Goal 4: Mathematics/Logical Reasoning: By	
☐ Goal 5: History and the Social and Behaviora	5 1
competencies:	i Sciences. By incerting the following
$\Box$ Goal 6: The Humanities and Fine Arts: By mo	eeting the following competencies:
$\Box$ Goal 7: Human Diversity: By meeting the fol	
☐Goal 8: Global Perspective: By meeting the for	
☐Goal 9: Ethical and Civic Responsibility: By	
☐Goal 10: People and the Environment: By me	<u> </u>
<b>Topics to be Covered</b>	
Basic pneumatic circuits	
Cylinder sequencing circuits.	
Air/oil circuits.	
Dual supply pneumatic circuit.	_
Pneumatic speed control circuits.	
Rodless cylinder circuits.	
System pressure and cylinder speed tests.	
Two-hand safety circuits.	
Vacuum circuits.	

Student Learning Outcomes	
Identify and control potential safety hazards and implement safe working practices.	
Demonstrate the ability to test the basic functions of pneumatic components to determine	
proper operation.	
Design and connect pneumatic circuits.	
Troubleshoot basic pneumatic systems.	
Is this course part of a transfer pathway: Yes □ No ☒ *If yes, please list the competencies below	

Revised Date: 1/26/2022