## MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. DSL	COURSE NUMBER: 1120
NUMBER OF CREDITS: 2	Lecture: 2 Lab: 0 OJT 0
Course Title:	
Powertrain Principles	
Catalog Description:	
Powertrain Principles explains theory of clutch	, pressure plate assembly, standard
transmissions, differentials, power take-off, bra	•
powertrain operations.	•
Prerequisites or Necessary Entry Skil	ls/Knowledge:
None	
FULFILLS MN TRANSFER CURRIC	CULUM AREA(S)
□Goal 1: Communication: By meeting the following	· /
☐Goal 2: Critical Thinking: By meeting the fol	
☐Goal 3: Natural Sciences: By meeting the fol	
☐Goal 4: Mathematics/Logical Reasoning: By	
☐Goal 5: History and the Social and Behaviora	
competencies:	
☐Goal 6: The Humanities and Fine Arts: By me	eeting the following competencies:
☐Goal 7: Human Diversity: By meeting the following the fo	
□Goal 8: Global Perspective: By meeting the fo	
☐Goal 9: Ethical and Civic Responsibility: By	
☐Goal 10: People and the Environment: By me	
and the Environment. By the	eting the following competencies.
<b>Topics to be Covered</b>	
Powertrain Fundamentals	
Powertrain Service	
Powertrain Repair	
Powertrain Diagnosis	
<b>Student Learning Outcomes</b>	
Describe a manual transmission	
Diagnose powertrain component issues	
Explain how clutches operate	
Discuss drivetrain operations	

List steps for servicing powertrains	
Identify powertrain repair procedures	
Is this course part of a transfer pathway: Yes  \text{No}	

Revised Date: 8/2021