MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE **COURSE OUTLINE**

DEPT. AUTO	COURSE NUMBER: 2121
NUMBER OF CREDITS: 5	Lecture: 2 Lab: 3 OJT: 0
Course Title:	
Engine Performance II	
Catalog Description:	
Engine Performance II introduces the theory and repignition systems, emission controls, electronic engine diagnosis. Students will be introduced to diagnosing performance.	e controls, and engine performance
Prerequisites or Necessary Entry Skills/Kr	nowledge:
TRAN 1100	
FULFILLS MN TRANSFER CURRICULU applicable) □Goal 1: Communication: By meeting the following □Goal 2: Critical Thinking: By meeting the following □Goal 3: Natural Sciences: By meeting the following □Goal 4: Mathematics/Logical Reasoning: By meeting □Goal 5: History and the Social and Behavioral Science competencies: □Goal 6: The Humanities and Fine Arts: By meeting □Goal 7: Human Diversity: By meeting the following □Goal 8: Global Perspective: By meeting the following □Goal 9: Ethical and Civic Responsibility: By meeting □Goal 10: People and the Environment: By meeting □Goal 10: People and the Environment: By meeting the following □Goal 10: People and the Environment:	g competencies: g competencies: g the following competencies: nces: By meeting the following the following competencies: g competencies: g competencies: ng the following competencies:
Topics to be Covered	
GM computer system fundamentals	
Sensors, throttle body injection, port fuel injection	
Scanners OBD II	
Diagnosing and repair of computer systems	
Diagnoshig and repair of computer systems	

Student Learning Outcomes

Test computer system performance.

Test oxygen ,BARO, TPS, MAP, VSS, ECT , IAT sensors
Test computer-controlled Driveability emissions.

Test air management component operation.	
Access electronic information as applied to automotive systems	
Comply with personal and environmental safety practices associated with clothing; eye	
protection; hand tools; power equipment; proper ventilation; and the handling, storage, and	
disposal of chemicals/materials in accordance with local, state, and federal safety and	
environmental regulations.	
*The required outcomes follow the Auto Service Technician (AST) model of the Board of the	
National Institute for Automotive Service Excellence (ASE)	
Is this course part of a transfer pathway: Yes □ No ☒	

Revised Date: 04/2022