**Course Title:**
Fuel Systems Lab

**Catalog Description:**
Fuel Systems Lab applies theory in the laboratory environment. Students will disassemble, inspect, evaluate, reassemble and calibrate a mechanical pump.

**Prerequisites or Necessary Entry Skills/Knowledge:**
DSL 1135

**FULFILLS MN TRANSFER CURRICULUM AREA(S)**
- ☐ Goal 1: Communication: By meeting the following competencies:
- ☐ Goal 2: Critical Thinking: By meeting the following competencies:
- ☐ Goal 3: Natural Sciences: By meeting the following competencies:
- ☐ Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- ☐ Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- ☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- ☐ Goal 7: Human Diversity: By meeting the following competencies:
- ☐ Goal 8: Global Perspective: By meeting the following competencies:
- ☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- ☐ Goal 10: People and the Environment: By meeting the following competencies:

**Topics to be Covered**
- Distributor and inline mechanical fuel systems
- Combination mechanical and electronic injection systems
- Diagnosis, service and repair of fuel systems

**Student Learning Outcomes**
- Determine different types of fuel delivery systems
- Determine the effects of fuel grades on engine performance
- Experiment with different types of governor systems
- Inspect and analyze engine and fuel systems to determine methods to enhance performance
- Differentiate distributor and inline pumps
- Demonstrate how the governor and fuel system operate together
- Diagnose and repair fuel system issues in diesel engines
Is this course part of a transfer pathway: Yes ☐ No ☒

Revised Date: 8/2021