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## SECTION HEADING

### DSL 2111: Advanced Powertrain Lab

#### Description

Advanced Powertrain Lab demonstrates disassembly, inspection, evaluation, repair, reassembly, and testing of various power shift transmissions and related components. The student will work in the lab environment to diagnose and repair these various electro hydraulic systems.

#### Credits

4

#### Prerequisite

DSL 1120 or DSL 1125

#### Topics to be Covered

1. Electro-hydraulically controlled transmissions
2. Advanced drive trains
3. Computer controlled powertrain systems
4. Power and hydraulic flows

#### Learning Outcomes

1. Diagnose and repair issues with power shift, shuttle transmissions, hydro/ IVT and other new systems
2. Demonstrate operation and repair of electrical hydraulics and test different systems
3. Determine high-pressure and low-pressure standby
4. Demonstrate operation and repair of computer controlling powertrain systems
5. Overhaul transmissions and drive train components
6. Rebuild transmissions and drive train components

#### Credit Details

Lecture: 0

Lab: 4

OJT: 0