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## SECTION HEADING

### ELWT 1102: Hydraulics Lab

#### Description

Hydraulics Lab utilizes equipment and applies advanced fundamentals of hydraulic valves. The course will also cover advanced circuits and schematics.

#### Credits

1

#### Prerequisite

DSL1130 or MECH1103

#### Topics to be Covered

1. Parallel and series circuits
2. Flow rates and pressure
3. Open hydraulic system
4. Closed center hydraulic circuit
5. Schematics

#### Learning Outcomes

1. Secure a parallel circuit on test trainer
2. Secure a series circuit on test trainer
3. Adjust flow rates on hydraulic circuits
4. Adjust pressures on hydraulic circuits
5. Construct an open hydraulic system
6. Construct a closed center hydraulic circuit
7. Diagnose multiple types of hydraulic circuits
8. Interpret schematics and apply interpretation to components on units
9. Develop schematics related to wind energy
10. Operate multiple hydraulic systems

#### Credit Details

Lecture: 0

Lab: 1

OJT: 0