



## Electromechanical Technology – Fluid Power Specialty

Level 1 Certificate

Manufacturing, Logistics, & Transportation Pathway

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
<b>FIRST YEAR</b>				
<b>First Semester</b>				
<input type="checkbox"/> DFTG 1325	Blueprint Reading and Sketching	3	F, Sp	Hyb
<input type="checkbox"/> ELPT 1321	Introduction to Electrical Safety and Tools	3	F, Sp	Hyb
<input type="checkbox"/> HYDR 1301	Rigging and Conveying Systems	3	F,	Hyb
<input type="checkbox"/> HYDR 1409	Basic Fluid Power I (Hydraulics)	4	F, Sp	Hyb
<input type="checkbox"/> ENTC 1410	Fluid Mechanics with Applications	4	F	Hyb
<b>Second Semester</b>				
<input type="checkbox"/> ENTC 2310	Machine Design	3	Sp	Hyb
<input type="checkbox"/> HYDR 1350	Hydraulics, Fabrications & Repair	3	F	Hyb
<input type="checkbox"/> HYDR 1415	Basic Fluid Power II (Pneumatics)	4	Sp	Hyb
<input type="checkbox"/> HYDR 2455	Hydraulics Proportional & Servo Valves	4	F, Sp	Hyb
<input type="checkbox"/> HYDR 2330 or ELMT 2380	Fluid Power System Design or Cooperative Education	3	Sp	Hyb
<b>TOTAL CREDIT HOURS</b>		<b>30</b>		

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)

Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)

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### Transfer Opportunities

Transfer is possible to Technical Schools, and Community Colleges.

### Career Opportunities and Salaries

Industrial/Mobile Hydraulic Equipment Assembler - \$35,843  
Industrial/Mobile Hydraulic Maintenance Assistant - \$47,364  
Industrial/Mobile Hydraulic Mechanic - \$47,364  
Fluid Power Sales Trainee - \$38,060

### Marketable Skills

- 1) Work well on a team
- 2) Define, explain and interpret technical information
- 3) Use critical thinking to identify strengths and weakness to determine solutions
- 4) Identify appropriate information sources
- 5) Use math to answer questions
- 6) Schedule/coordinate Operations
- 7) Use current technology to diagnose and solve problems
- 8) Use Troubleshooting to determine causes and decide what to do about it
- 9) Think on your feet

### Technical Skills

The Fluid Power Specialty certificate is designed for the entry-level fluid power technician or sales associate. The certificate introduces students to both the basic fluid power principals and to advanced fluid power design and diagnostics. The Fluid power Specialty certificate prepares students for various employment opportunities in repair and maintenance, research and development, and sales/marketing positions in various industries.