Catalog Year: 2019-20

Electromechanical Technology – Fluid Power Specialty

Associate of Applied Science **Manufacturing, Logistics, & Transportation Pathway**

AC Course Number	Required Course Titles	Credit Hours	Semesters Offered	Course Modalities
FIRST YEAR				
First Semester				
☐ DFTG 1325	Blueprint Reading and Sketching	3	F, Sp	Hyb
☐ ELPT 1321	Introduction to Electrical Safety and Tools	3	F, Sp	Hyb
☐ ENGL 1301	Composition I	3	F, W, Sp, Su	F2F, Int, Hyb
☐ HYDR 1301	Rigging and Conveying Systems	3	F	Hyb
☐ HYDR 1409	Basic Fluid Power I (Hydraulics)	4	F, Sp	Hyb
☐ STSU 0300	Student Success	0	F, W, Sp, Su	F2F, Int, Hyb
Second Semester				
☐ ENTC 1410	Fluid Mechanics with Applications	4	F	Hyb
☐ HYDR 1415	Basic Fluid Power II (Pneumatics)	4	Sp	Hyb
☐ SPCH 1318	Interpersonal Communication	3	F, W, Sp, Su	F2F, Int, Hyb
☐ TECM 1301	Industrial Math	3	F, Sp	Hyb
SECOND YEAR				
First Semester				
☐ ENTC 2310	Machine Design	3	Sp	Hyb
☐ HYDR 1350	Hydraulics, Fabrications & Repair	3	F	Hyb
☐ HYDR 2455	Hydraulics Proportional & Servo Valves	4	F, Sp	Hyb
☐ PHYS 1305	Elementary Physics	4	F, W, Sp, Su	F2F, Int, Hyb
☐ DFTG 1409 or ELPT 1411	Basic Computer-Aided Drafting **or** Basic Electrical Theory	4	F, Sp	Hyb
Second Semester				
☐ HYDR 2330 or ELMT 2380	Fluid Power System Design or Cooperative Education	3	Sp	Hyb
☐ HYDR 2459	Advanced Hydraulics	4	Sp	Hyb
☐ SOCI 1301	Introduction to Sociology	3	F, W, Sp, Su	F2F, Int, Hyb
☐ XXXX 13xx	Creative Arts Core*	3	F, W, Sp, Su	F2F, Int, Hyb
	TOTAL CREDIT HOURS	60		

* Choose from ARTS 1301, DRAM 1310, MUSI 1306, or MUSI 1310

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)
Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)

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Associate of Applied Science **Manufacturing, Logistics, & Transportation Pathway**

Transfer Opportunities

Transfer is possible to Bachelors of Applied Arts and Science at some Universities.

Career Opportunities and Salaries

Electromechanical Technician - $46,367
Fluid Power Technician - $25,000
Industrial Machinery Mechanic - $47,364
Machinery Maintenance Technician - $24,485
Industrial Hydraulic Technician - $42,000
Mobile Hydraulic Technician - $39,108
Pneumatic Technician - $21.35/hour
Engineering Intern - $21.09/hour

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 Associate in Applied Science Degree-Fluid Power Specialty is designed for the entry-level, intermediate level, and advanced level fluid power technician or sales associate. The AAS-Fluid Power Specialty Degree introduces students to basic, intermediate and advanced fluid power principles and concepts. Students will develop logical fluid power diagnostic procedures, and develop the ability to understand advanced fluid power system design concepts and diagnostics. The Fluid Power Specialty Degree prepares students for various employment opportunities in repair and maintenance, research and development, and sales/ marketing positions in various industries.

Semesters: Fall (F), Winter (W)Spring (Sp), Summer (Su)
Modalities: Face-to-face (F2F), Internet/online (Int), Hybrid (Hyb)

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