



Electromechanical Technology – Electrical Technician 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				
<input type="checkbox"/> ELPT 1321	Introduction to Electrical Safety and Tools	3	F	Hyb
<input type="checkbox"/> ELPT 1411	Basic Electrical Theory	4	F	Hyb
<input type="checkbox"/> ELPT 1441	Motor Control	4	F	Hyb
<input type="checkbox"/> TECM 1301	Industrial Mathematics	3	F, Sp, Su	Hyb
<input type="checkbox"/> SOCI 1301	Intro to Sociology	3	F, Sp, Su	F2F
Second Semester				
<input type="checkbox"/> ELPT 1429	Residential Wiring	4	F, Sp	Hyb
<input type="checkbox"/> ELPT 1445	Commercial Wiring	4	Sp	Hyb
<input type="checkbox"/> DFTG 1325	Blueprint Reading and Sketching	3	F, Sp, Su	Hyb
<input type="checkbox"/> ELPT 2319	Programmable Logic Controllers I	3	Sp	Hyb
SECOND YEAR				
First Semester				
<input type="checkbox"/> SPCH 1318	Interpersonal Communication	3	F, Sp, Su	F2F, Int
<input type="checkbox"/> ENGL 1301	Composition I	3	F, Sp, Su	F2F
<input type="checkbox"/> ELPT 2355	Programmable Logic Controllers II	3	F	Hyb
<input type="checkbox"/> ELPT 2331	AC/DC Drives	3	F	Hyb
<input type="checkbox"/> PHYS 1305	Elementary Physics	3	F, Sp	F2F
Second Semester				
<input type="checkbox"/> HYDR 1409	Basic Fluid Power (Hydraulics)	4	F	Hyb
<input type="checkbox"/> ELPT 2449	Industrial Automation	4	Sp	Hyb
<input type="checkbox"/> ENTC 2310 or ELMT 2381	Machine Design or Cooperative Education	3	Sp	Hyb
<input type="checkbox"/> XXXX 13xx	Creative Arts Core*	3	F, 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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Transfer Opportunities

Bachelors of Applied Arts and Science at some universities. Students should check with the receiving institution to verify transferability.

Marketable Skills

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

Career Opportunities and Salaries

Licensed Apprentice Electrician - \$44,844
Equipment Technician - \$46,367
Programmable Logic Technician (PLC Tech) - \$53,139
Robotic Technician - \$46,367
Automation Technician - \$53,139
Electrical Maintenance - \$53,139
Instrument and Controls Technician - \$46,367

Technical Skills

- Use Test Equipment
- Wiring Skills
- Understand Hydraulic Systems
- Troubleshoot Motor Circuits
- Setup Variable Speed Drives
- Setup Programmable Logic Controllers
- Setup Robotic Systems