

## Electromechanical Engineering Technology

### Electromechanical Engineering Technology

TERRY CAMPUS

Fall 2022

The Electromechanical Engineering Technology department awards a student an Associate in Applied Science (A.A.S.) degree. To receive this degree, the student must complete training in the fields of electricity, electronics, process control, and hydraulics/pneumatics. The graduating student constructs electrical, electronic, and fluid circuits from engineering designs provided by supervisory engineers, to apply test and evaluation procedures to these circuits, and to correct circuit defects with instrument-aided analysis.

A graduate of this technology is qualified for at least an entry-level position in the electromechanical field, which includes plant maintenance, small machine repairs, and school or hospital maintenance. A student may also choose to attend a four-year institution and pursue a baccalaureate degree in industrial, mechanical, or electromechanical engineering.

#### PROGRAM SPECIFIC ADVISEMENT STATEMENT

##### Courses - Semester 1

	Credits	Lecture	Lab
<a href="#">SSC 100 - First Year Seminar</a>	1	1	0
<a href="#">CEN 100 - Intro Elec &amp; Computer Eng Tech</a>	3	2	2
<a href="#">ELM 130 - Industrial Electricity</a>	3	2	3
<a href="#">MAT 183 - Reasoning with Functions I</a>	5	5	
<a href="#">ENG 101 - Composition I</a>	3	3	0
<a href="#">ELM 205 - Mechanisms and Design</a>	3	2	4

##### Courses - Semester 2

	Credits	Lecture	Lab
<a href="#">CEN 126 - Industrial Networks</a>	3	2	2
<a href="#">EDD 131 - Engineering Graphics/CAD</a>	3	2	4
<a href="#">ENG 102 - Composition II</a>	3	3	0
<a href="#">ELM 230 - Industrial Electronics</a>	3	2	3
<a href="#">MAT 193 - Reasoning with Functions II</a>	4	4	

##### Courses - Semester 3

	Credits	Lecture	Lab
<a href="#">ELM 243 - Indust Program Logic Control</a>	4	3	3
<a href="#">ELM 252 - Fluid Power</a>	3	2	4
<a href="#">ENG 122 - Technical Writing-Comm</a>	3	3	0
<a href="#">ELM 175 - Process Ctrl &amp; Instrumentation</a>	4	3	3

##### Courses - Semester 4

	Credits	Lecture	Lab
<a href="#">ELM 155 - Manufacturing Topics</a>	4	3	2
<a href="#">ELM 253 - Advd Programable Logic Control</a>	4	3	3
<a href="#">ELM 250 - Industrial Automation</a>	3	2	4
<a href="#">ELM 290 - Electromechanical Internship</a>	3	0	9

#### Approved Electives

Select one social science elective to take in the third and fourth semesters.

Group	Courses	Credits	Lecture	Lab
	<a href="#">ECO 111 - Macroeconomics</a>	3	3	0
	<a href="#">ECO 122 - Microeconomics</a>	3	3	0

<a href="#">POL 111 - Political Science</a>	3	3	0
<a href="#">PSY 100 - Human Relations</a>	3	3	0
<a href="#">PSY 121 - General Psychology</a>	3	3	0
<a href="#">HIS 111 - U. S. History: Pre-Civil War</a>	3	3	0
<a href="#">HIS 112 - U. S. History: Post-Civil War</a>	3	3	0
<a href="#">SOC 111 - Sociology</a>	3	3	0
<a href="#">COM 111 - Human Communications</a>	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **68 credits**. The number of courses and credits required for graduation may be more depending on college readiness and the elective courses offered in your program major (if electives are a part of the program).*