

Electromechanical Engineering Technology

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TERRY CAMPUS

Spring 2020

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
SSC 100 - First Year Seminar	1	1	0
CEN 100 - Intro Elec & Computer Eng Tech	3	2	2
ELM 130 - Industrial Electricity	3	2	3
MAT 180 - College Algebra	4	4	1
ENG 101 - Crit Thinking & Acad Writing	3	3	0
ELM 205 - Mechanisms and Design	3	2	4

Courses - Semester 2

	Credits	Lecture	Lab
CEN 126 - Industrial Networks	3	2	2
EDD 131 - Engineering Graphics/CAD	3	2	4
ENG 102 - Composition and Research	3	3	0
ELM 230 - Industrial Electronics	3	2	3
MAT 190 - Precalculus	4	4	1

Courses - Semester 3

	Credits	Lecture	Lab
ELM 243 - Indust Program Logic Control	4	3	3
ELM 252 - Fluid Power	3	2	4
ENG 122 - Technical Writing-Comm	3	3	0
ELM 175 - Process Ctrl & Instrumentation	4	3	3

Courses - Semester 4

	Credits	Lecture	Lab
ELM 155 - Manufacturing Topics	4	3	2
ELM 253 - Advd Programable Logic Control	4	3	3
ELM 250 - Industrial Automation	3	2	4
ELM 290 - Electromechanical Internship	3	0	9

Approved Electives

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

Group	Courses	Credits	Lecture	Lab
	ECO 111 - Macroeconomics	3	3	0
	ECO 122 - Microeconomics	3	3	0

POL 111 - Political Science	3	3	0
PSY 100 - Human Relations	3	3	0
PSY 121 - General Psychology	3	3	0
HIS 111 - U. S. History: Pre-Civil War	3	3	0
HIS 112 - U. S. History: Post-Civil War	3	3	0
SOC 111 - Sociology	3	3	0
COM 111 - Human Communications	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **67 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*