

# Electro-Mechanical Technology

The electro-mechanical technology program is one of the most established and respected programs within the electro-mechanical technology discipline. It is a computer-based program in which electro-mechanical technology theory and practice receive equal emphasis as applied to both financial and managerial electro-mechanical technology issues. It intends to support the career objectives of those looking to enter the job market upon graduation, as well as the academic needs of those looking to pursue advanced degrees. Required course work covers areas critical to success in today's electro-mechanical technology workplace:

- Technical electro-mechanical technology knowledge
- Communication and interpersonal skills
- Career-related computer literacy
- A laptop computer is recommended, but not required, for students entering the electro-mechanical technology program.

## Courses

Course Number	Course Title	Credits
ELMEC 1101	Survey of Automation	3 Credits
ELMEC 1110	Motor & Generator Fundamentals	3 Credits
ELMEC 1120	Residential Wiring	3 Credits
ELMEC 1130	Industrial Electricity	3 Credits
ELMEC 1140	Commercial and Industrial Wiring	3 Credits
ELMEC 1141	Hydraulics and Pneumatics	3 Credits
ELMEC 1150	National Electrical Code	3 Credits
ELMEC 1171	Introduction to Robotic Technology	3 Credits
ELMEC 1190	Intro to Programmable Logic Controllers	3 Credits
ELMEC 1300	Introduction to Fiber Optics	3 Credits
ELMEC 1400	Maintenance Management Systems	3 Credits
ELMEC 1410	Preventive and Predictive Maintenance	3 Credits
ELMEC 1420	Drive Components	2 Credits
ELMEC 1820	Selected Topics I	1-4 Credits
ELMEC 1840	Independent Study	1-4 Credits
ELMEC 2310	Fiber Optic Applications	3 Credits
ELMEC 2410	Programmable Controller II (PLC II)	3 Credits
ELMEC 2420	Programmable Controller III	3 Credits
ELMEC 2430	Advanced Industrial Automation	3 Credits

<b>Course Number</b>	<b>Course Title</b>	<b>Credits</b>
ELMEC 2510	Process and Automation Controls	3 Credits
ELMEC 2520	Advanced Process and Automation Controls	3 Credits
ELMEC 2600	Motion Control: Servo & Stepper Motor	2 Credits
ELMEC 2610	Machine Vision & Artificial Intelligence	2 Credits
ELMEC 2620	Critical Thinking in Tech Applications	2 Credits
ELMEC 2630	Systems Troubleshooting	2 Credits
ELMEC 2860	Internship (Career & Technical Ed)	1-4 Credits
ELMEC 2863	Internship (Career & Technical Ed)	3 Credits
ELMEC 2864	Internship (Career & Technical Ed)	4 Credits
ELMEC 2865	Internship Advanced (Career & Tech Ed)	1-4 Credits