

# Associate of Applied Science Energy Technology – Electrical Specialization



**PURPOSE:** Graduates of the Energy Technology Electrical Specialization program are trained in the job skills necessary for employment as a beginning electrician in both residential and commercial fields. Graduates will find employment in various industries and service sectors as electricians or electronic technicians. Course work includes a strong emphasis in electrical technology with related courses in computer applications, quality control, teamwork, and communication.

**Special Considerations:** Up to 15 hours credit may be given for documented previous work experience and certifications. Although the program is designed to educate and train electricians entering the industry, the program offers increased skill levels and knowledge for experienced electricians as well. Electricians seeking a degree or desiring promotion to upper level managerial positions should also take advantage of this excellent opportunity.

## First Year

Fall Semester			
MTH	105	Survey of Technical Mathematics I	2
AIR	111	Air Conditioning & Refrigeration Controls I	3
AIR	281	Energy Management I	3
ELE	131	National Electrical Code I	3
ELE	140	Basic Electricity and Machinery	3
SDV	100	College Success Skills	1

Spring Semester			
MTH	106	Survey of Technical Mathematics II	2
ELE	132	National Electrical Code II	3
ELE	156	Electrical Control Systems <sup>1</sup>	3
ELE	217	Electrical Power Utilities	2
AIR	112	Air Conditioning & Refrigeration Controls II	3
ITE	115	Introduction to Computer Applications & Concepts	3
HLT or PED	Elective		1

## Second Year

Fall Semester			
ELE		Two Electives	6
ENE	110 <sup>1</sup>	Solar Power Installations <sup>1</sup>	4
IND	137	Team Concepts and Problem Solving	3
ENG	111	College Composition I	3

Spring Semester			
ELE	239	Programmable Controllers <sup>1</sup>	3
ELE	298 or 290	Seminar & Project or Coordinated Internship	3
ELE	Elective		4
HUM	Elective		3
SOC	Elective		3
<b>Total Minimum Credits for Degree</b>			<b>65</b>

<sup>1</sup>Prerequisite ELE 140 or equivalent

Program Contact: Roger Greene, [rgreene@mecc.edu](mailto:rgreene@mecc.edu), 276.523.2400 ext. 262

Thomas Clements, Dean, [tclements@mecc.edu](mailto:tclements@mecc.edu), 276.523.2400 ext. 431