

# Electrical Technology

## Associate of Applied Science Degree

### Program Coordinator:

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**Program Purpose:** This program is designed to prepare students for employment upon graduation as electrical technicians with emphasis on installation, power distribution, controls, programmable controls, mechanical systems and the maintenance of industrial machinery. Graduates are qualified for positions as Basic Electrician, Electrical/ Electronic Technician, Industrial Maintenance Technician, Industrial Technical Sales, Industrial Field Service, or Maintenance Supervisor.

First Semester (Fall)		
ENG 111 or ENG 115	College Composition I or Technical Writing	3
DRF 161	Blueprint Reading	2
ELE 111	Home Electric Power I	3
ELE 133	Practical Electricity I	3
ITE 100	Introduction to Information Systems <sup>1</sup>	3
SAF 130	Industrial Safety-OSHA 10	1
SDV 101	Orientation to College Success	1
<b>Total Credits</b>		<b>16</b>
Second Semester (Spring)		
ELE 134	Practical Electricity II	3
MTH 111	Basic Technical Mathematics	3
ELE 141	DC & AC Machines	4
ELE 112	Home Electric Power II	3
ELE 131	National Electrical Code I	3
<b>Total Credits</b>		<b>16</b>
Third Semester (Fall)		
BUS 100	Introduction to Business <sup>2</sup>	3
ELE 233	Programmable Logic Controllers I	3
MUS 121 or REL 230	Music Appreciation I or Religions of the World <sup>3</sup>	3
MEC 161	Hydraulics & Pneumatics	3
ELE 175	Industrial Solid State Devices & Circuits	3
ELE 245	Industrial Wiring	3
<b>Total Credits</b>		<b>18</b>
Fourth Semester (Spring)		
ELE 234	Programmable Logic Controllers II	3
ELE 225	Electrical Control Systems	4
ELE 132	National Electrical Code II	3
WEL 110	Welding Processes	3
PED	Physical Education	1
ECO 201 or PSY 120	Principles of Macroeconomics I or Human Relations <sup>4</sup>	3
<b>Total Credits</b>		<b>17</b>

**Total minimum credits for AAS Degree**

**67**

<sup>1</sup>ITE 115 or ITE 119 are acceptable substitutes

<sup>2</sup>Recommended General Education Elective

<sup>3</sup>Recommended Humanities Elective

<sup>4</sup>Recommended Social Science Elective



Students completing SAF 130 are eligible to take the OSHA-10 exam.