

# A.A.S. IN ELECTRICAL ENGINEERING TECHNOLOGY



**2022-23**

# A.A.S. IN ELECTRICAL ENGINEERING TECHNOLOGY

**(A40180)** The Electrical Engineering Technology curriculum is designed to provide training for entry-level technicians desiring a career in electrical maintenance and management or in the design, planning, construction, development, and installation of electrical systems, machines, and power generating equipment.

Beginning with electrical fundamentals, course work progressively introduces electronics, electrical machines and controls, and electrical power systems. Other course work includes the study of various fields associated with the electrical/electronic industry.

Graduates may seek employment as technicians, engineering assistants, technical managers, or salespersons in electrical generation/distribution, industrial maintenance, electronic repair, or other fields requiring a broad-based knowledge of electrical and electronic concepts.

Students may be required to take one or more Developmental courses as a result of pre-enrollment placement tests; therefore, the student may need more than the minimum number of contact hours listed for graduation.

<b>Fall Semester 1</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1
ELC	113	Residential Wiring	2	6	4
ENG	111	Writing & Inquiry	3	0	3
			<b>Total</b>		<b>12</b>

<b>Spring Semester 1</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ELC	115	Industrial Wiring	2	6	4
ELN	231	Industrial Controls	2	3	3
ACA	111	College Student Success	1	0	1
MAT	110	Math Measurement & Literacy OR	2	2	3
MAT	171	Precalculus Algebra	2	2	4
			<b>Total</b>		<b>11-12</b>

<b>Summer Semester 1</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ELC	125	Diagrams and Schematics	1	2	2
EGR	150	Introduction to Engineering	1	2	2
			<b>Total</b>		<b>4</b>

<b>Fall Semester 2</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ELC	118	National Electrical Code	1	2	2
ELC	119	NEC Calculations	1	2	2
ELC	117	Motors and Controls	2	6	4
ENG	112	Writing/Research in the Disciplines	3	0	3
*Humanities Gen Ed Requirement			3	0	3
			<b>Total</b>		<b>14</b>

<b>Spring Semester 2</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ELC	128	Introduction to PLC	2	3	3
ELN	131	Analog Electronics	3	3	4
CIS	110	Introduction to Computers	2	2	3
*Social Science Gen Ed Requirement			3	0	3
			<b>Total</b>		<b>13</b>

<b>Summer Semester 1</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ELC	215	Electrical Maintenance	2	3	3
			<b>Total</b>		<b>3</b>

<b>Fall Semester 3</b>			<b>Lecture</b>	<b>Lab</b>	<b>Credit</b>
ALT	120	Renewable Energy Tech	2	2	3
ELN	133	Digital Electronics	3	3	4
EGR	120	Engineering and Design Graphics	2	2	3
			<b>Total</b>		<b>10</b>

**TOTAL HOURS 67/68**

\*Please see the section titled "General Education Requirements for A.A.S. programs" at the end of the Program of Study section for specific courses that fulfill these requirements.



# DIPLOMA IN ELECTRICAL ENGINEERING TECHNOLOGY

(D40180)

			Lecture	Lab	Credit	
ELC	131	Circuit Analysis I	3	3	4	
ELC	131A	Circuit Analysis I Lab	0	3	1	
ENG	111	Writing & Inquiry	3	0	3	
ELC	115	Industrial Wiring	2	6	4	
MAT	110	Math Measurement & Literacy OR		2	2	3
MAT	171	Precalculus Algebra	2	2	4	
ELC	125	Diagrams and Schematics	1	2	2	
EGR	150	Introduction to Engineering	1	2	2	
ELC	117	Motors and Controls	2	6	4	
ELC	128	Introduction to PLC	2	3	3	
ELN	131	Analog Electronics I	3	3	4	
ELC	215	Electrical Maintenance	2	3	3	
ALT	120	Renewable Energy Tech	2	2	3	
EGR	120	Engineering and Design Graphics	2	2	3	
				<b>Total</b>	<b>39/40</b>	