



# Program Planning Guide

## Electrical Systems Technology Associate in Applied Science Degree (A35130)

**Program Length:** 5 semesters

**Program Sites:** Chatham Main Campus

**Career Pathway Options:** Associate in Applied Science Degree in Electrical Systems Technology

<b>Suggested Course Schedule</b>		<b>Class</b>	<b>Lab</b>	<b>Work</b>	<b>Credits</b>	<b>Notes:</b>
<b>1st Semester (fall)</b>						
ELC 112	DC/AC Electricity	3	6	0	5	
ELC 113	Residential Wiring	2	6	0	4	
BPR 130	Print-Reading Construction	3	0	0	3	
CST 131	OSHA/Safety/Certification	2	2	0	3	
ACA 122	College Transfer Success	0	2	0	1	
<b>Total Semester Hours</b>		<b>10</b>	<b>16</b>	<b>0</b>	<b>16</b>	
<b>2nd Semester (spring)</b>						
ELC 114	Commercial Wiring	2	6	0	4	
ELC 117	Motors and Controls	2	6	0	4	
CMT 120	Codes and Inspections	3	0	0	3	
Social/Behavioral Sciences Requirement		3	0	0	3	
<b>Total Semester Hours</b>		<b>10</b>	<b>12</b>	<b>0</b>	<b>14</b>	
<b>3rd Semester (summer)</b>						
ELC 128	Intro to PLC	2	3	0	3	
MNT 120	Industrial Wiring Methods	1	3	0	2	
MAT 110	Math Measurement & Literacy	2	2	0	3	
Humanities/Fine Arts Electives		3	0	0	3	
English, select one:		3	0	0	3	
ENG 110	Freshman Composition					
ENG 111	Writing and Inquiry					
<b>Total Semester Hours</b>		<b>11</b>	<b>8</b>	<b>0</b>	<b>14</b>	



<b>4th Semester (fall)</b>						
Communications Requirement		3	0	0	3	
ELC 121	Electrical Estimating	1	2	0	2	
ELC 122	Advanced Residential Wiring	2	4	0	4	
ELC 130	Advanced Motors/Controls	2	2	0	3	
	<b>Total Semester Hours</b>	<b>8</b>	<b>8</b>	<b>0</b>	<b>12</b>	
<b>5th Semester (spring)</b>						
BUS 230	Small Business Management	3	0	0	3	
ELC 118	National Electrical code	1	2	0	2	
ELC 220	Photovoltaic Sys Tech	2	3	0	3	
WBL 111	Work-Based Learning	0	0	10	1	
	<b>Total Semester Hours</b>	<b>6</b>	<b>5</b>	<b>10</b>	<b>9</b>	
<b>Total Semester Hours Required for Graduation: 65</b>						



<b>Approved Humanities/Fine Arts Electives Associate in Applied Science Degree/Diploma</b>		<b>Approved Social/Behavioral Science Electives Associate in Applied Science Degree/Diploma</b>	
ART 111	Art Appreciation	ANT 210	General Anthropology
ART 114	Art History Survey I	ANT 220	Cultural Anthropology
ART 115	Art History Survey II	ECO 151	Survey of Economics
DRA 111	Theatre Appreciation	ECO 251	Principles of Microeconomics
ENG 125	Creative Writing I	ECO 252	Principles of Macroeconomics
ENG 231	American Literature I	HIS 111	World Civilization I
ENG 232	American Literature II	HIS 112	World Civilization II
ENG 241	British Literature I	HIS 131	American History I
ENG 242	British Literature II	HIS 132	American History II
HUM 110	Technology & Society	HIS 222	African-American History I
HUM 115	Critical Thinking	HIS 223	African-American History II
HUM 120	Cultural Studies	HIS 226	The Civil War
HUM 122	Southern Culture	HIS 236	North Carolina History
HUM 150	American Women's Studies	POL 120	American Government
HUM 160	Introduction to Film	PSY 150	General Psychology
MUS 110	Music Appreciation	PSY 237	Social Psychology
MUS 112	Introduction to Jazz	PSY 241	Developmental Psychology
PHI 240	Introduction to Ethics	PSY 246	Adolescent Psychology
REL 110	World Religions	PSY 281	Abnormal Psychology
REL 211	Intro to Old Testament	SOC 210	Introduction to Sociology
REL 212	Intro to New Testament	SOC 213	Sociology of the Family
<b>Communications, select one:</b>		SOC 220	Social Problems
ENG 112	Writing/Research in the Disc	SOC 225	Social Diversity
ENG 114	Prof Research & Reporting	SOC 232	Social Context of Aging
ENG 115	Oral Communication	SOC 240	Social Psychology
ENG 116	Technical Report Writing		
COM 110	Introduction to Communication		
COM 120	Intro Interpersonal Communication		
COM 231	Public Speaking		