

## Awards

**Associate Degree:** Electrical Systems Technology (A35130)  
**Length of Program:** 5 Semesters  
**Prerequisite:** High School Diploma & 1 Unit of Algebra, Placement Test Equivalent

**Diploma:** Electrical Systems Technology (D35130)  
**Length of Program:** 3 Semesters  
**Prerequisite:** High School Diploma, Placement Test Equivalent

**Certificate:** Introduction to Photovoltaic Systems (C35130C2)  
**Length of Program:** 2 Semesters  
**Prerequisite:** Placement Test Equivalent

**Certificate:** Basic Residential Wiring (C35130C3)  
**Length of Program:** 2 Semesters  
**Prerequisite:** Placement Test Equivalent

**Certificate:** Introduction to Photovoltaic Systems (C35130H2)  
**Length of Program:** 2 Semesters  
**Prerequisite:** Placement Test Equivalent

## Program Information Contact

### Curriculum Chairperson

Ron Hamilton  
(910) 678-8326  
Cumberland Hall, Room 334-H  
hamiltor@faytechcc.edu  
www.faytechcc.edu

## Other Important Information

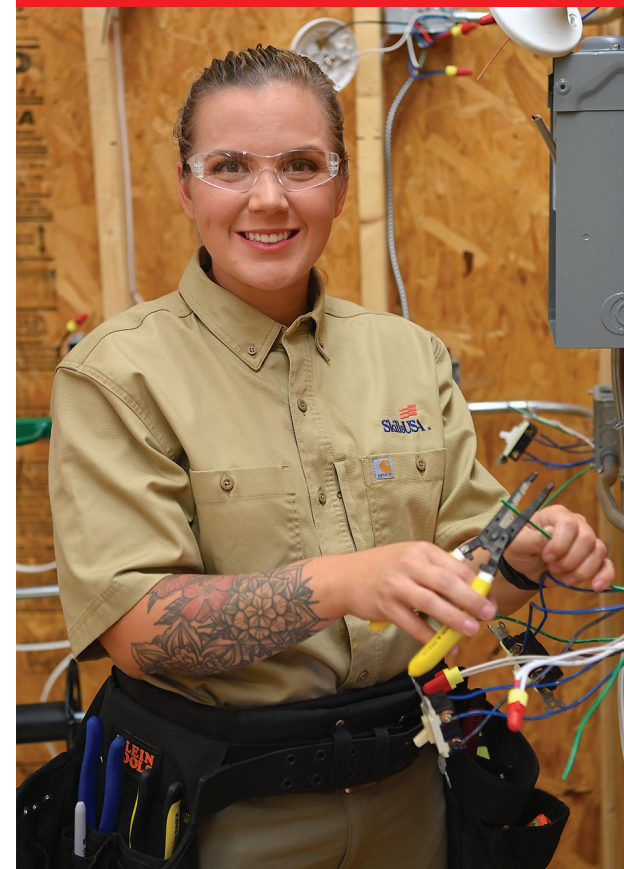
**Application Deadlines:** The program is designed for a student to enter during the fall or spring semester. A student may enter at other times with approval of the Department Chairperson.

**Scholarship/Title IV Financial Aid/VA Services:** Scholarships/Title IV Financial Aid/Veteran's assistance may be available for associate degrees. Certificates and diplomas that fall under this program/area of study may or may not be eligible for Scholarship/Title IV Financial Aid/VA Services. Please contact the Financial Aid Office, Student Center, Room 2; Telephone (910) 678-8242. Veterans Services, General Classroom Building, Room 202, (910) 678-8580.



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# ELECTRICAL SYSTEMS TECHNOLOGY



[www.faytechcc.edu](http://www.faytechcc.edu)

*Fayetteville Technical  
Community College*

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P.O. Box 35236 • 2201 Hull Road  
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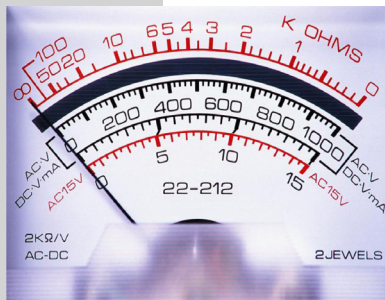
An Equal Opportunity Employer

## PROGRAM FACT SHEET ELECTRICAL SYSTEMS TECHNOLOGY (A35130)



This curriculum is designed to provide training for persons interested in the installation and maintenance of electrical systems found in residential, commercial, and industrial facilities.

Coursework, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.



Graduates should qualify for a variety of jobs in the electrical field as an on-the-job trainee or apprentice assisting in

the layout, installation, and maintenance of electrical/electronic systems.

## FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE ELECTRICAL SYSTEMS TECHNOLOGY (A35130)

Effective: Fall 2025

Revised: 02/21/25

Length: 5 Semesters

Prerequisite: High School Diploma & 1 Unit of Algebra, Placement Test Equivalent

Award: Associate in Applied Science

### FALL SEMESTER 1

Prefix	No.	Title	Class	Lab	Clinical	Credit
ACA	120	Career Assessment	1	0	0	1
or						
ACA	122	College Transfer Success	0	2	0	1
CIS	110	Introduction to Computers	2	2	0	3
ELC	112	DC/AC Electricity	3	6	0	5
ELC	128	Intro to PLC	2	3	0	3
*ENG	110	Freshman Composition	3	0	0	3
or						
ENG	111	Writing and Inquiry	3	0	0	3
<b>TOTALS</b>			<b>10</b>	<b>11</b>	<b>0</b>	<b>15</b>

### SPRING SEMESTER 1

Prefix	No.	Title	Class	Lab	Clinical	Credit
ELC	113	Residential Wiring	2	6	0	4
ELC	117	Motors and Controls	2	6	0	4
ELC	118	National Electrical Code	1	2	0	2
ELC	220	Photovoltaic Sys Tech	2	3	0	3
MAT	110	Math Measure & Literacy	2	2	0	3
<b>TOTALS</b>			<b>9</b>	<b>19</b>	<b>0</b>	<b>16</b>

### SUMMER SEMESTER 1

Prefix	No.	Title	Class	Lab	Clinical	Credit
ELC	121	Electrical Estimating	1	2	0	2
ELC	122	Adv. Residential Wiring	2	4	0	4
<b>TOTALS</b>			<b>3</b>	<b>6</b>	<b>0</b>	<b>6</b>

### FALL SEMESTER 2

Prefix	No.	Title	Class	Lab	Clinical	Credit
BPR	130	Blueprint Reading/Const	3	0	0	3
COM	120	Intro Interpersonal Com	3	0	0	3
or						
COM	231	Public Speaking	3	0	0	3
ELC	114	Commercial Wiring	2	6	0	4
ELC	119	NEC Calculations	1	2	0	2
ISC	115	Constructoin Safety	2	0	0	2
<b>TOTALS</b>			<b>11</b>	<b>8</b>	<b>0</b>	<b>14</b>

### SPRING SEMESTER 2

Prefix	No.	Title	Class	Lab	Clinical	Credit
BUS	110	Introduction to Business	3	0	0	3
ELC	229	Applications Project	1	3	0	2
		Humanities/Fine Arts Elective	3	0	0	3
		Social/Behav Science Elective	3	0	0	3
		Major Elective	3	0	0	3
<b>TOTALS</b>			<b>13</b>	<b>3</b>	<b>0</b>	<b>14</b>

**TOTAL REQUIRED CREDITS...65**

**Work-Based Learning Option:** Qualified students may elect to take up to three (3) credit hours of Work-Based Learning in lieu of a Major elective provided they acquire approval from the Work-Based Learning Coordinator and the Department Chairperson.

**Note:** Students **may not** take an introductory foreign language to fulfill the Humanities/Fine Arts requirement.

**\*Note:** ENG-110 is not transferable.