**FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE**

**ELECTRICAL SYSTEMS TECHNOLOGY (A35130)**

Effective: Fall 2023

Revised: 05/19/23

Length: 5 Semesters

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

Award: Associate in Applied Science

**FALL SEMESTER I**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ACA120 | Career Assessment | 1 | 0 | 0 | 1 |
| or |  |  |  |  |  |
| ACA122 | College Transfer Success | 0 | 2 | 0 | 1 |
| CIS110 | Introduction to Computers | 2 | 2 | 0 | 3 |
| ELC112 | DC/AC Electricity | 3 | 6 | 0 | 5 |
| ELC128 | Intro to PLC | 2 | 3 | 0 | 3 |
| \*ENG110 | Freshman Composition | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| ENG111 | Writing and Inquiry | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **10** | **11** | **0** | **15** |

**SPRING SEMESTER I**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ELC113 | Residential Wiring | 2 | 6 | 0 | 4 |
| ELC117 | Motors and Controls | 2 | 6 | 0 | 4 |
| ELC118 | National Electrical Code | 1 | 2 | 0 | 2 |
| ELC220 | Photovoltaic Sys Tech | 2 | 3 | 0 | 3 |
| MAT110 | Math Measurement & Literacy | 2 | 2 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **9** | **19** | **0** | **16** |

**SUMMER SEMESTER I**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ELC121 | Electrical Estimating | 1 | 2 | 0 | 2 |
| ELC122 | Advanced Residential Wiring | 2 | 4 | 0 | 4 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **3** | **6** | **0** | **6** |

**FALL SEMESTER II**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| BPR130 | Blueprint Reading/Const | 3 | 0 | 0 | 3 |
| COM120 | Intro Interpersonal Com | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| COM231 | Public Speaking | 3 | 0 | 0 | 3 |
| ELC114 | Commercial Wiring  | 2 | 6 | 0 | 4 |
| ELC119 | NEC Calculations | 1 | 2 | 0 | 2 |
| ISC115 | Construction Safety | 2 | 0 | 0 | 2 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **11** | **8** | **0** | **14** |

**SPRING SEMESTER II**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| BUS110 | Introduction to Business  | 3 | 0 | 0 | 3 |
| ELC229 | Applications Project | 1 | 3 | 0 | 2 |
|  | Humanities/Fine Arts Elective | 3 | 0 | 0 | 3 |
|  | Social/Behavioral Science Elective | 3 | 0 | 0 | 3 |
|  | Major Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **13** | **3** | **0** | **14** |

## 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