**FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE**

**INDUSTRIAL SYSTEMS TECHNOLOGY (A50240)**

Effective: Fall 2023

Revised: 12/09/22

Length: 5 Semesters

Prerequisite: High School Diploma, 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** |
| ATR112 | Intro to Automation | 2 | 3 | 0 | 3 |
| ELC117 | Motors and Controls  | 2 | 6 | 0 | 4 |
| ELC228 | PLC Applications | 2 | 6 | 0 | 4 |
| DFT170 | Engineering Graphics | 2 | 2 | 0 | 3 |
| ISC112 | Industrial Safety | 2 | 0 | 0 | 2 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **10** | **17** | **0** | **16** |

**SUMMER SEMESTER I**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| BPR115 | Elc/Fluid Power Diagrams | 1 | 2 | 0 | 2 |
| HYD110 | Hydraulics/Pneumatics I | 2 | 3 | 0 | 3 |
|  | Social/Behavioral Science Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **6** | **5** | **0** | **8** |

**FALL SEMESTER II**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ATR212 | Industrial Robots | 2 | 3 | 0 | 3 |
| MEC130 | Mechanisms | 2 | 2 | 0 | 3 |
| MAT110 | Math Measurement & Literacy | 2 | 2 | 0 | 3 |
| or |  |  |  |  |  |
| PHY121 | Applied Physics I | 3 | 2 | 0 | 4 |
| WLD131 | GTAW (TIG) Plate | 2 | 6 | 0 | 4 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **8** | **13** | **0** | **13** |

**SPRING SEMESTER II**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| COM120 | Intro Interpersonal Com | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| COM231 | Public Speaking | 3 | 0 | 0 | 3 |
| ELC215 | Electrical Maintenance | 2 | 3 | 0 | 3 |
| MAC141 | Machining Applications I | 2 | 6 | 0 | 4 |
| MNT230 | Pumps & Piping Systems | 1 | 3 | 0 | 2 |
|  | Humanities/Fine Arts Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **11** | **12** | **0** | **15** |

## TOTAL REQUIRED CREDITS.... 67

**Work-Based Learning Option**: NA

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

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