**FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE**

**COMPUTER-INTEGRATED MACHINING/**

**MANUAL MACHINING (D50210)**

Effective: Fall 2022

Revised: 01/07/22

Length: 3 Semesters

Prerequisite: High School Diploma, Placement Test Equivalent

Award: Diploma

**Fall Semester 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ACA120 | Career Assessment | 1 | 0 | 0 | 1 |
| or |  |  |  |  |  |
| ACA122 | College Transfer Success | 0 | 2 | 0 | 1 |
| ISC110 | Workplace Safety | 1 | 0 | 0 | 1 |
| MAC111 | Machining Technology I | 2 | 12 | 0 | 6 |
| MAC114 | Intro to Metrology | 2 | 0 | 0 | 2 |
| MAC131 | Blueprint Reading/Mach I | 1 | 2 | 0 | 2 |
| MAC151 | Machining Calculations | 1 | 2 | 0 | 2 |
|  | Humanities/Fine Arts Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **10** | **16** | **0** | **17** |

**Spring Semester 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ENG110 | Freshman Composition | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| ENG111 | Writing and Inquiry | 3 | 0 | 0 | 3 |
| DFT119 | Basic CAD | 1 | 2 | 0 | 2 |
| MAC112 | Machining Technology II | 2 | 12 | 0 | 6 |
| MAC121 | Intro to CNC | 2 | 0 | 0 | 2 |
| MAC226 | CNC EDM Machining | 1 | 3 | 0 | 2 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **9** | **17** | **0** | **15** |

**Summer Semester 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| MAC181 | CNC Mill: Prog Set & Oper | 2 | 6 | 0 | 4 |
| MAC232 | CAM: CNC Milling | 1 | 4 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **3** | **10** | **0** | **7** |

**TOTAL REQUIRED CREDITS... 39**

**Work-Based Learning Option:** N/A

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