**FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE**

**COMPUTER-INTEGRATED MACHINING (A50210)**

Effective: Fall 2022

Revised: 01/07/22

Length: 5 Semesters

Prerequisite: High School Diploma, Placement Test Equivalent

Award: Associate in Applied Science

**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** |

**Fall Semester 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| MAC113 | Machining Technology III | 2 | 12 | 0 | 6 |
| MAC122 | CNC Turning | 1 | 3 | 0 | 2 |
| MAC231 | CAM: CNC Turning | 1 | 4 | 0 | 3 |
| MAT110 | Math Measurement & Literacy | 2 | 2 | 0 | 3 |
| or |  |  |  |  |  |
| PHY121 | Applied Physics I | 3 | 2 | 0 | 4 |
| PSY118 | Interpersonal Psychology | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **9** | **21** | **0** | **17** |

**Spring Semester 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| COM120 | Intro Interpersonal Com | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| COM231 | Public Speaking | 3 | 0 | 0 | 3 |
| MAC224 | Advanced CNC Milling | 1 | 3 | 0 | 2 |
| MAC233 | Appl in CNC Machining | 2 | 12 | 0 | 6 |
| MAC248 | Production Procedures | 1 | 2 | 0 | 2 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **7** | **17** | **0** | **13** |

**TOTAL REQUIRED CREDITS... 69**

**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.