**FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE**

**AC, HEATING & REFRIGERATION TECHNOLOGY (A35100)**

Effective: Fall 2023

Revised: 12/09/22

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** |
| AHR110 | Intro to Refrigeration | 2 | 6 | 0 | 5 |
| AHR111 | HVACR Electricity | 2 | 2 | 0 | 3 |
| AHR113 | Comfort Cooling | 2 | 4 | 0 | 4 |
| ENG111 | Writing and Inquiry | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| ENG110 | Freshman Composition | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **9** | **12** | **0** | **15** |

## Spring Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| AHR112 | Heating Technology | 2 | 4 | 0 | 4 |
| AHR114 | Heat Pump Technology | 2 | 4 | 0 | 4 |
| AHR130 | HVAC Controls | 2 | 2 | 0 | 3 |
| AHR160 | Refrigerant Certification | 1 | 0 | 0 | 1 |
| MAT110 | Math Measurement & Literacy | 2 | 2 | 0 | 3 |
| or |  |  |  |  |  |
| PHY121 | Applied Physics I | 3 | 2 | 0 | 4 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **9** | **12** | **0** | **15** |

## Summer Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| AHR115 | Refrigeration Systems | 1 | 3 | 0 | 2 |
| AHR213 | HVACR Building Code | 1 | 2 | 0 | 2 |
| PSY118 | Interpersonal Psychology | 3 | 0 | 0 | 3 |
|  | Humanities/Fine Arts Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **8** | **5** | **0** | **10** |

**Fall Semester 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| AHR133 | HVAC Servicing | 2 | 6 | 0 | 4 |
| AHR151 | HVAC Duct Systems I | 1 | 3 | 0 | 2 |
| AHR180 | HVACR Customer Relations | 1 | 0 | 0 | 1 |
| AHR211 | Residential System Design | 2 | 2 | 0 | 3 |
| AHR255 | Indoor Air Quality | 1 | 2 | 0 | 2 |
| WLD112 | Basic Welding Processes | 1 | 3 | 0 | 2 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **8** | **16** | **0** | **14** |

**Spring Semester 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| AHR212 | Advance Comfort Systems | 2 | 6 | 0 | 4 |
| AHR215 | Commercial HVAC Controls | 1 | 3 | 0 | 2 |
| AHR245 | Chiller Systems | 1 | 3 | 0 | 2 |
| AHR250 | HVAC System Diagnostics | 0 | 4 | 0 | 2 |
| or |  |  |  |  |  |
| WBL112 | Work Based Learning I | 0 | 4 | 0 | 2 |
| COM120 | Intro Interpersonal Com | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| COM231 | Public speaking | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **7** | **16** | **0** | **13** |

**TOTAL REQUIRED CREDITS....... 67**

**Work-Based Learning Option**: Qualified students may elect to take up to two (2) credit hours of Work-Based Learning in lieu of

 AHR-250 provided they acquire prior 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.