****

**Air Conditioning Technology – Domestic Air Conditioner and**

**Furnace Installer Certificate**

**Program Coordinator: John Christiansen E-mail:** **john.christiansen@kctcs.edu** **Phone: 859-246-6775**

**Program Website: https://bluegrass.kctcs.edu/education-training/program-finder/air-conditioning-technology.aspx**

**Student Name: Student ID:**

***Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **First Semester** | **Credit****Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ACR 100 Refrigeration Fundamentals | 3 |  |  | Coreq: ACR 101 |  |
| ACR 101 Refrigeration Fundamentals Lab | 2 |  |  | Coreq: ACR 100 |  |
| ACR 102 HVAC Electricity | 3 |  |  | Coreq: ACR 103 |  |
| ACR 103 HVAC Electricity Lab | 2 |  |  | Coreq: ACR 102 |  |
| **Total Semester Credit Hours** | **10** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Second Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ACR 130 Electrical Components | 3 | Spring |  | ACR 102, Coreq: ACR 131 |  |
| ACR 131 Electrical Components Lab  | 2 | Spring |  | ACR 102, Coreq: ACR 130 |  |
| ACR 170 Heat Load/Duct Design | 3 | Spring |  |  |  |
| ACR 260 Heating & Humidification | 3 | Spring |  | ACR 102+103, Coreq: ACR 262 |  |
| ACR 262 Heating & Dehumidification Lab | 2 | Spring |  | ACR 102+103, Coreq: ACR 260 |  |
| **Total Semester Credit Hours** | **13** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| ACR 250 Cooling and Dehumidification | 3 | Fall |  | ACR 100+101, Coreq: ACR 251 |  |
| ACR 251 Cooling and Dehumidification Lab | 2 | Fall |  | ACR 100+101, Coreq: ACR 250 |  |
| ACR 270 Heat Pump Application | 3 | Fall |  | ACR 100+102, Coreq: ACR 271 |  |
| ACR 271 Heat Pump Application Lab | 2 | Fall |  | ACR 100+102, Coreq: ACR 270 |  |
| ACR 290 Journeyman Preparation | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **13** |  |  |  |
| **Total Certificate Credit Hours** | **36** |  |  |  |  |

|  |
| --- |
| * **25% or more of Total Certificate Credit Hours must be earned at BCTC**
* **Grade of C or higher in each course required for the certificate**
 |

**Graduation Requirements:**

**Advisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |
| --- |
| **Course Rotation Schedule** |
| Fall | ACR 100 and ACR 101, ACR 102 and ACR 103, ACR 250 and ACR 251, ACR 270 and ACR 271, ACR 290  |
| Spring | ACR 100 and ACR 101, ACR 102 and ACR 103, ACR 130 and ACR 131, ACR 170, ACR 260 and ACR 262, ACR 290 |
| Summer | ACR 170, ACR 250 and ACR 251, ACR 290 |

|  |
| --- |
| **Embedded Credentials** |
| **Credential** | **Title** | **Requirements** | **Total Credit Hours** |
| Certificate | Environmental Control System Servicer | ACR 100, ACR 101, ACR 102, ACR 103, ACR 130, ACR 131, ACR 250, ACR 251, ACR 260, ACR 262 | 25 |
| Certificate | Environmental System Repair Helper | ACR 100, ACR 101, ACR 102, ACR 103 | 10 |