[Air Conditioning Technology - Domestic Air Conditioner and Furnace Installer](https://bluegrass.kctcs.edu/education-training/program-finder/air-conditioning-technology.aspx)

Certificate

Coordinator: John Christiansen ([john.christiansen@kctcs.edu](mailto:john.christiansen@kctcs.edu)) 859-246-6775

Student Name: Student ID:

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

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | 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 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | 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 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | 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 |  |  |  |  |

**Graduation Requirements:**

* 25% or more of Total Certificate Credit Hours must be earned at BCTC.
* Cumulative GPA must be 2.0 or higher.

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

**Additional Information**

Students in the Air Conditioning Technology program must achieve a minimum grade of C in each technical course.

**Course Rotation Schedule**

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

**Embedded Credentials**

|  |  |  |  |
| --- | --- | --- | --- |
| Credential | Title | Requirements | Total Cr. 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 |

**Certificate Requirements:**

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

*Reviewed by: John Christiansen Effective Term: Fall 2021*

*Review Date: 2-3-2021*