[Air Conditioning Technology - Refrigeration Mechanic](https://bluegrass.kctcs.edu/education-training/program-finder/air-conditioning-technology.aspx)

Certificate

Coordinator: John Christiansen (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 |  |
| Total Semester Credit Hours | 5 |  |  |  |  |

Summer 6-week

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ACR 200 Commercial Refrigeration | 3 | Summer |  | ACR 100+101, Coreq: ACR 201 |  |
| ACR 201 Commercial Refrigeration Lab  | 2 | Summer |  | ACR 100+101, Coreq: ACR 200 |  |
| Total Semester Credit Hours | 5 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ACR 210 Ice Machines | 3 | Fall |  | ACR 100 and ACR 102 |  |
| 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 |  |
| Total Semester Credit Hours | 8 |  |  |  |  |
| Total Certificate Credit Hours | 28 |  |  |  |  |

**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 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*