

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	
Technical Elective	3				BRX 120 Blue Print Reading is strongly recommended.
CIT 105 Introduction to Computers	3				
<b>Total Semester Credit Hours</b>	<b>16</b>				

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	
Technical Elective	3				ISX 100 is recommended.
<b>Total Semester Credit Hours</b>	<b>16</b>				

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	
Technical Elective	3				ACR 290 Journeyman Preparation is strongly recommended.
ENG 101 Writing I	3				
<b>Total Semester Credit Hours</b>	<b>16</b>				

Fourth Semester	Cr. Hrs.	Term	Grade	Prerequisites	Notes
Technical Elective	1				CPR 100 CPR for Healthcare Professionals is strongly recommended.
Heritage or Humanities course	3				
Natural Sciences course	3				
Oral Communications course	3				COM 252 is recommended.
Quantitative Reasoning course	3				
Social and Behavioral Sciences course	3				
<b>Total Semester Credit Hours</b>	<b>16</b>				
<b>Total Degree Credit Hours</b>	<b>64</b>				

- Graduation Requirements:**
- 25% or more of Total Program 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.

ACR 290 is strongly recommended as it prepares students to sit for the Journeyman Test.

**Course Rotation Schedule**

	<b>Fall</b>	<b>Spring</b>	<b>Summer</b>
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 200 and ACR 201			X
ACR 210	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

**Technical Elective Courses**

<b>Course</b>	<b>Cr. Hrs.</b>	<b>Prerequisites</b>
ACR 291 Special Problems	1	
ACR 299 Cooperative Education	2	
BAS 160 Introduction to Business	3	
BRX 110 Basic Blueprint Reading for Machinist	2	
BRX 112 Blueprint Reading for Machinist	4	
BRX 220 Blueprint Reading for Construction	3	
EET 250 National Electric Code	4	(EET 154 & 155 & 252 & 243) or (EET 254 & 255)
EET 252 Electrical Construction II	2	
EET 264/265 Rotating Machinery / Lab	2 / 2	
EET 270/271 Electrical Motor Controls I / Lab	2 / 2	
EET 272/273 Electrical Motor Controls II / Lab	2 / 2	EET 270
EET 276/277 Programmable Logic Controllers / Lab	2 / 2	
EET 298 Practicum	1-8	
ELT 210 Devices I	3	
ELT 295 Independent Problems	1-2	
FPX 100/101 Fluid Power / Lab	3 / 2	
WLD 100/101 Oxy-Fuel Systems / Lab	2 / 2	
WLD 120/121 Shielded Metal Arc Welding / Fillet Lab	2 / 2	
Other courses approved by the Air Conditioning Technology Program Coordinator	1 – 9	

**Embedded Credentials**

<b>Credential</b>	<b>Title</b>	<b>Requirements</b>	<b>Total Credit Hours</b>
Certificate	Domestic Air Conditioner and Furnace Installer	ACR 100, ACR 101, ACR 102, ACR 103, ACR 130, ACR 131, ACR 170, ACR 250, ACR 251, ACR 260, ACR 262, ACR 270, ACR 271, ACR 290	36
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**