

# CAREER TECHNICAL EDUCATION PATHWAY: Air Conditioning Heating & Refrigeration Technology- Basic HVAC-R (C35100HS)



## Career & College Promise (CCP)

CCP provides opportunities for eligible NC high school students to take tuition-free, college courses for dual credit (some students may have to pay for textbooks and materials). Taking CCP courses accelerates completion of college certificates, diplomas, applied associate degrees that provide entry-level job skills, and associate degrees that lead to transfer within the UNC System of 4-year colleges and universities and many private institutions.

## General Admission Requirements

- College CCP Admissions Application
- High School Transcript
- Enrollment Verification Form

## Basic HVACR Technology Pathway

### Eligibility Requirements

- High School Junior or Senior
- Unweighted GPA of 2.8 or higher, **OR** demonstrate college readiness in English, reading and math on approved assessments.
- If GPA is below 2.8, principles/designees can waive the GPA and provide rationale for waiver.



## About the HVACR Technology Pathway:

This pathway is a set of courses that students can take to earn a certificate that is part the Air Conditioning Heating and Refrigeration Technology diploma/degree. The Basic HVAC certificate gives students the skills and knowledge to begin a career in the startup, preventive maintenance, service, repair and/or installation of residential and light commercial HVAC systems.

## Annual Median Salary for HVACR mechanics/installers (NC) \$45,640

NCCareers.org

## You will learn:

- Mechanical Refrigeration, Heating and Cooling Theory, Electricity, Controls and Safety

## Possible Job Titles:

- HVAC Technician, Mechanic, Installer

## Possible Employment Opportunities:

- HVAC Companies
- Construction Companies

Basic HVAC Certificate				
Sem	Title	Class	Lab	Credit
FA	AHR 110 Intro to Refrigeration	2	6	5
FA	ELC 111 Intro to Electricity	2	2	3
SP	AHR 112 Heating Technology	2	4	4
SP	AHR 113 Comfort Cooling	2	4	4
SP	AHR 160 Refrigerant Certification*	1	0	1
<b>Total Semester Hours Credit for Certificate</b>				<b>17</b>

\*After completion of Refrigerant Certification class, student is eligible to sit for the state certification exam.

For more information, contact: Trish Holsten, Secondary Partnerships Director  
(252) 246-1250 • [pholsten@wilsoncc.edu](mailto:pholsten@wilsoncc.edu) • [www.wilsoncc.edu/ccp](http://www.wilsoncc.edu/ccp)  
wilsoncc.edu | (252) 291-1195 | 902 Herring Avenue, P.O. Box 4305 Wilson, NC 27893

# CONNECTING HIGH SCHOOL, COLLEGE, AND CAREER



High School  
(electives)

CCP Dual Enrollment  
(college/HS concurrently)

After High School  
(post-graduation)

## High School

### COMPLETE GRAD REQ:

- English (4), Math (4), Social Studies, Science (3), PE/Health, electives

### POSSIBLE HS ELECTIVES:

- Agricultural Mechanics I, II
- CCP Electives

## WCC HVAC-R Pathway

### CCP JR and SR YEARS:

- AHR 110 Intro to Refrigeration
- AHR 113 Comfort Cooling
- ELC 111 Intro to Electricity **and** AHR 160 Refrigerant Certification
- AHR 112 Heating Technology

## WCC HVAC-R Diploma

### GENERAL ED:

- Math, Communications

### HVAC-R CLASSES:

- Diagrams and Schematics
- HVACR Electronics
- Heat Pump Technology
- Refrigeration Systems
- HVACR Building Codes
- Energy Management

### ADDITIONAL REQ CLASSES:

- HVAC Electives
- College Student Success

