

# 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			
Title	Class	Lab	Credit
AHR 110 Intro to Refrigeration	2	6	5
ELC 111 Intro to Electricity	2	2	3
AHR 112 Heating Technology	2	4	4
AHR 113 Comfort Cooling	2	4	4
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 (must be 18 years).

For more information, contact: Trish Holsten, Secondary Partnerships Director  
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# CONNECTING HIGH SCHOOL, COLLEGE, AND CAREER



## High School (electives)

### High School

#### COMPLETE GRAD REQ:

- English, Math, Social Studies, Science PE, Health, electives.
- Possible HS electives- Agricultural Mechanics I, II

## CCP Dual Enrollment (College/HS concurrently)

### Community College HVAC-R Pathway

#### CCP JUNIOR AND SENIOR YEARS:

- Intro to Refrigeration
- Comfort Cooling
- Intro to Electricity and Refrigerant Certification
- Heating Technology

## After High School (post-graduation)

### Community College HVAC-R Diploma

#### GEN ED:

- Math, Communications

#### HVACR CLASSES:

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

#### ADDITIONAL REQUIRED CLASSES:

- Elective
- College Student Success

