GUIDED PATHWAY: AIR CONDITIONING AND REFRIGERATION TECHNOLOGY A.A.S. MANUFACTURING and INDUSTRIAL TECHNOLOGY CAREER PATH

For more information, visit the Dallas College Air Conditioning and Refrigeration webpage [www.dcccd.edu/ACR] and your academic advisor at the Eastfield Campus.

This is an example course sequence for students interested in pursuing Air Conditioning and Refrigeration Technology. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Applied Science (A.A.S.) degree in Air Conditioning and Refrigeration Technology. Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by Dallas College. See catalog for official degree requirements.

The A.A.S. degree in Air Conditioning and Refrigeration Technology furnishes both the theory and practice required to qualify a person for employment in the various areas of the air conditioning and refrigeration industry. Special emphasis is placed on commercial and industrial air conditioning and refrigeration during the second year. Hands-on experience stresses operation and troubleshooting of medium and low temperature refrigeration and chilled water air conditioning systems. Courses that complete the degree also compete the Residential-Technician I Certificate (RC) and are noted below.

Visit the NTCCC Transfer Consortium to view guided pathways created for students who complete an A.A.S. degree and the options for transfer to complete a Bachelor of Applied Arts and Science. Speak with an academic advisor at your campus to choose courses that will help you to transfer to a specific university.

Catalog Year	2020-2021 You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Associate of Applied Science
GPA Requirement	Student must earn a GPA of 2.0 or higher
TSI	Must be Complete

SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students. This is not an official degree plan. See catalog for official degree requirements.

AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS

SEMESTER 1 — Total Hours: 15

HART 1401 – Basic Electricity for HVAC *Course is taught in a 5-week format.* (*Course also applies to RC)*
HART 1403 – Air Conditioning Control Principles *Course is taught in a 5-week format.* (*Course also applies to RC)*
HART 1407 – Refrigeration Principles *Course is taught in a 5-week format.* (*Course also applies to RC)*
ENGL 1301 – Composition I *This is a Core course. You must earn a grade of "C" or better.*

SEMESTER 1 ACTION ITEMS

1. Meet with your advisor to confirm academic and career goals before the end of the semester.
2. Meet with a career advisor or coach to research your career options and opportunities for job shadowing.

SEMESTER 2 — Total Hours: 15

HART 1441 – Residential Air Conditioning (*Course also applies to RC)*
HART 1445 – Gas and Electric Heating (*Course also applies to RC)*
HART 2449 – Heat Pumps (*Course also applies to RC)*
MATH ELECTIVE* *This is a Core course. You must earn a grade of "C" or better.*

* There are several options to fulfill this requirement. See your academic advisor for a specific list.

SEMESTER 2 ACTION ITEMS

1. Meet with your advisor to file an official program of study audit and confirm or update your academic/career path and program of study.
2. Apply for the Residential–Technician I Certificate.

SEMESTER 3 — Total Hours: 14

HART 2342 – Commercial Refrigeration
HART 2441 – Commercial Air Conditioning
HART 2436 – Air Conditioning Troubleshooting
HUMANITIES/FINE ARTS ELECTIVE* *This is a Core course.*

* There are several options to fulfill this requirement. See your academic advisor for a specific list.

SEMESTER 3 ACTION ITEMS

1. Meet with a career advisor or coach for assistance in preparing for job search.
2. Meet with a faculty or career advisor regarding placement for the Cooperative Education/Practicum course in semester 4.

SEMESTER 4 — Total Hours: 16

HART 1451 – Energy Management
HART 2334 – Advanced Air Conditioning Controls
SPCH 1311 – Introduction to Speech Communication *This is a Core course.*
PSYC 2301 – General Psychology *This is a Core course.*
CHOOSE ONE: **HART 2368** – Practicum (or field experience)-Heating, Air Conditioning and Refrigeration Technology/Technician ***OR***
HART 2380 – Cooperative Education-Heating, Air Conditioning and Refrigeration Technology/Technician

SEMESTER 4 ACTION ITEMS

1. After reviewing your program of study, meet with your advisor to apply for the Air Conditioning and Refrigeration Technology A.A.S.
2. Sign up for Commencement.
3. Join the Alumni Network!

PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS