

GUIDED PATHWAY: RESIDENTIAL – TECHNICIAN III CERTIFICATE

MANUFACTURING and INDUSTRIAL TECHNOLOGY CAREER PATH



For more information, visit the [Dallas College Air Conditioning and Refrigeration webpage](http://www.dcccd.edu/ACR) [www.dcccd.edu/ACR] and your academic advisor at your campus.

This is an example course sequence for students interested in pursuing a Residential – Technician III Level II Certificate within the Air Conditioning and Refrigeration Technology program. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn the Residential – Technician III Level II Certificate. Courses from this certificate may apply to the related A.A.S. degree. Students must earn at least 25% of the credit hours required for graduation through instruction by Dallas College. See catalog for [official certificate requirements](#). Courses that complete the certificate are noted below.

Catalog Year	2020-2021	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Level II Certificate	
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 certificate requirements](#).

CERTIFICATE MINIMUM: 48 SEMESTER CREDIT HOURS

SEMESTER 1

Total Hours: 18

[HART 1401](#) – Basic Electricity for HVAC *Course is taught in a 5-week format.*

[HART 1403](#) – Air Conditioning Control Principles *Course is taught in a 5-week format.*

[HART 1407](#) – Refrigeration Principles *Course is taught in a 5-week format.*

CHOOSE TWO: [ENGL 1301](#) – Composition I *This is a Core course. Must earn a grade of “C” or higher.*

[SPCH 1311](#) – Introduction to Speech Communication *This is a Core course.*

[MATH](#) Elective* *This is a Core course. Must earn a grade of “C” or higher.*

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

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

[HART 1445](#) – Gas and Electric Heating

[HART 2449](#) – Heat Pumps

ELECTIVE – *Any 3-credit hour HART course not previously identified as part of the award pattern. OR*

Any 3-credit hour course from: ACNT 1303, BUSI 1301, COSC 1301, SPAN 1300

SEMESTER 2 ACTION ITEMS

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

SEMESTER 3

Total Hours: 15

[HART 2438](#) – Air Conditioning Installation and Startup

[HART 2445](#) – Residential Air Conditioning Systems Design

HART 2436 – Air Conditioning Troubleshooting

ELECTIVE – Any 3-credit hour HART course not previously identified as part of the award pattern. **OR**
Any 3-credit hour course from: ACNT 1303, BUSI 1301, COSC 1301, SPAN 1300

SEMESTER 3 ACTION ITEMS

1. Meet with a career advisor or coach for assistance in preparing for job search.
2. After reviewing your degree plan and program of study, meet with your advisor to apply for the Residential – Technician III Level II Certificate

PATHWAY TOTAL: 48 SEMESTER CREDIT HOURS