

**INDUSTRY, MANUFACTURING AND CONSTRUCTION**

**GUIDED PATHWAY: AIR CONDITIONING AND REFRIGERATION TECHNOLOGY – RESIDENTIAL – TECHNICIAN I CERTIFICATE**

For more information, visit your academic advisor in your college or [dcccd.edu/ACR](http://dcccd.edu/ACR).

This is an example course sequence for students interested in pursuing a Residential – Technician I 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 a Residential – Technician I Certificate<sup>2</sup>. Courses from this certificate may apply to the related AAS degree. Gainful employment information for this certificate can be found at [https://www1.dcccd.edu/catalog/programs/degree\\_gei.cfm?a=70](https://www1.dcccd.edu/catalog/programs/degree_gei.cfm?a=70). For official certificate requirements, [click here](#).

Students pursuing this certificate are waived from the [Texas Success Initiative \(TSI\)](#) standards but must meet course prerequisites.

Courses that complete the Residential – Technician I (RC1) Certificate are noted below.



  
ONLY Offered at  
CVC and EFC

**SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS<sup>3</sup>**

*All maps can be modified to fit the needs of part-time students*

RC1	SEMESTER 1	ACTION ITEMS
♦	<b>HART 1401</b> – Basic Electricity for HVAC <sup>^</sup>	<input type="checkbox"/> Meet with your advisor to: <ul style="list-style-type: none"> <li>○ Confirm academic and career goals before the end of the semester.</li> <li>○ File an official degree plan, confirm or update your academic/career path and program of study</li> </ul> <input type="checkbox"/> Meet with a career advisor or coach to research your career options and opportunities for job shadowing.
♦	<b>HART 1403</b> – Air Conditioning Control Principles <sup>^</sup>	
♦	<b>HART 1407</b> – Refrigeration Principles <sup>^</sup>	

**TOTAL SEMESTER CREDIT HOURS: 12**

RC1	SEMESTER 2	ACTION ITEMS
♦	<b>HART 1441</b> – Residential Air Conditioning	<input type="checkbox"/> Meet with your advisor to Apply for the Residential–Technician I (RC1) Certificate
♦	<b>HART 1445</b> – Gas and Electric Heating	
♦	<b>HART 2449</b> – Heat Pumps	

**CERIFICATE MINIMUM: 24 SEMESTER CREDIT HOURS | PATHWAY TOTAL: 24 SEMESTER CREDIT HOURS**

<sup>1</sup> Degree plans may change in later catalogs. You may use this pathway if you entered one of the seven colleges on or before this date.  
<sup>2</sup> Students must earn at least 25% of the credit hours required for graduation through instruction by one of the seven colleges of the DCCCD awarding the certificate.  
<sup>3</sup> This is not an official degree plan. For official certificate requirements, [click here](#).  
<sup>^</sup> Course is taught in a 5-week format.

THIS PATHWAY WAS LAST UPDATED APRIL 10, 2019