

DCCCD 2019 – 2020 COMBINED ACADEMIC CATALOGS¹ OF THE COLLEGES
INDUSTRY, MANUFACTURING AND CONSTRUCTION

GUIDED PATHWAY: AIR CONDITIONING AND REFRIGERATION TECHNOLOGY

For more information, visit www.dcccd.edu/ACR and your academic advisor at Eastfield College.

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 (AAS) degree in Air Conditioning and Refrigeration Technology². For official degree requirements, [click here](#).

The AAS 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. Gainful employment information for this degree can be found at www.dcccd.edu/gainfulemp. Courses that complete the Degree (D) and the Residential - Technician I (RC1) Certificate are noted below.

Visit www.ntxccc.org/pathways to view guided pathways created for students who complete an AAS degree and the options for transfer should you choose. Speak with an academic advisor at your college to choose courses that will help you to transfer to a specific university.



ONLY Offered at EFC

COLLEGE READINESS REQUIREMENTS (only for the AAS)

Enrolling in one or more courses may be necessary if assessment activities and previous academic experiences indicate a need for additional knowledge and skills:

READING & WRITING PLACEMENT	MATH PLACEMENT	ENGLISH LANGUAGE PROFICIENCY
TSI MET: __ YES __ NO IF NO, ADVISOR INSERT COURSE(S) NEEDED	TSI MET: __ YES __ NO IF NO, ADVISOR INSERT COURSE(S) NEEDED	PROFICIENCY MET: __ YES __ NO IF NO, ADVISOR INSERT COURSE(S) NEEDED
<input type="checkbox"/> DREA / DWRI / DIRW (CIRCLE ONE) _____ <input type="checkbox"/> OTHER: _____	<input type="checkbox"/> DMAT _____ <input type="checkbox"/> OTHER: _____	<input type="checkbox"/> ESOL _____ <input type="checkbox"/> OTHER: _____

Exemptions/waivers may exist. Speak with an academic advisor regarding placement in college readiness courses and your ability to enroll in core academic coursework.

SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS³

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

D	RC1	SEMESTER 1	ACTION ITEMS
♦	♦	HART 1401 – Basic Electricity for HVAC [▲]	<input type="checkbox"/> Meet with your advisor to confirm academic and career goals before the end of the semester. <input type="checkbox"/> Meet with a career advisor or coach to research your career options and opportunities for job shadowing.
♦	♦	HART 1403 – Air Conditioning Control Principles [▲]	
♦	♦	HART 1407 – Refrigeration Principles [▲]	
♦		^CENGL 1301 – Composition I	
TOTAL SEMESTER CREDIT HOURS: 15			
D	RC1	SEMESTER 2	ACTION ITEMS
♦	♦	HART 1441 – Residential Air Conditioning	<input type="checkbox"/> Meet with your advisor to: <ul style="list-style-type: none"> ○ File an official program of study audit, confirm or update your academic/career path and program of study. ○ Apply for the Residential–Technician I (RC1) Certificate
♦	♦	HART 1445 – Gas and Electric Heating	
♦	♦	HART 2449 – Heat Pumps	
♦		^CMATH Elective*	
TOTAL SEMESTER CREDIT HOURS: 15			
D	RC1	SEMESTER 3	ACTION ITEMS
♦		HART 2342 – Commercial Refrigeration	<input type="checkbox"/> Meet with a faculty or career advisor regarding placement for the Cooperative Education/Practicum course in semester 4. <input type="checkbox"/> Meet with a career advisor or coach for assistance in preparing for job search.
♦		HART 2441 – Commercial Air Conditioning	
♦		HART 2436 – Air Conditioning Troubleshooting	
♦		^CHumanities/Fine Arts Elective*	
TOTAL SEMESTER CREDIT HOURS: 14			
D	RC1	SEMESTER 4	ACTION ITEMS
♦		HART 2368 – Practicum (or field experience)-Heating, Air Conditioning and Refrigeration Technology/Technician <u>OR</u> HART 2380 – Cooperative Education-Heating, Air Conditioning and Refrigeration Technology/Technician	<input type="checkbox"/> Apply for Graduation <ul style="list-style-type: none"> ○ Meet with your advisor to apply for the Air Conditioning and Refrigeration Technology AAS. ○ Sign up for commencement. <input type="checkbox"/> Join the Alumni Network!
♦		HART 1451 – Energy Management	
♦		HART 2334 – Advanced Air Conditioning Controls	
♦		^CSPCH 1311 – Introduction to Speech Communication	
♦		^CPSYC 2301 – General Psychology	
TOTAL SEMESTER CREDIT HOURS: 16			
AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS			

¹ 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.

² Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by one of the seven colleges of the DCCCD awarding the degree.

³ This is not an official degree plan. For official degree requirements, [click here](#).

C This course counts for the Core Curriculum at any public college or university in Texas.

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

^{*} Course is taught in a 5-week format.

You must earn a grade of "C" or better in English 1301 and the selected college-level mathematics course.