



**Associate in Applied Science in
Air Conditioning and Refrigeration Technology - Residential to
Bachelor of Applied Arts and Sciences in
Manufacturing and Industrial Management
Industrial Management Concentration^T
Guided Pathway
Effective for the 2019-2020 catalog¹**



First Year – Cedar Valley and Eastfield College²

FIRST SEMESTER	SECOND SEMESTER
HART 1401 – Basic Electricity for HVAC ^A	HART 1441 – Residential Air Conditioning
HART 1403 – Air Conditioning Control Principles	HART 1445 – Gas and Electric Heating
HART 1407 – Refrigeration Principles ^A	HART 2449 – Heat Pumps
^C ENGL 1301 – Composition I (010)	^C Mathematics Elective* (020)
Total Semester Hours: 15	Total Semester Hours: 15

Second Year – Cedar Valley and Eastfield College

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
HART 2438 – Air Conditioning Installation and Startup	HART 2436 – Air Conditioning Troubleshooting
HART 2445 – Residential Air Conditioning Systems Design	HART 1394 – Special Topics in Heating, Air Conditioning and Refrigeration Mechanic and Repairer OR
	HART 2380 – Cooperative Education-Heating, Air Conditioning and Refrigeration
^C Humanities/Fine Arts Elective* (040 OR 050)	^C PSYC 2301 – General Psychology (080)
^C SPCH 1311 – Intro to Speech Communication (090)	Elective ⁺
	Elective ⁺
Total Semester Hours: 14	Total Semester Hours: 16

AAS: Air Conditioning and Refrigeration Technology - Residential (60 hours)

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

Third Year – Tarleton State University

These courses may be completed at DCCCD (if offered) or TSU-Stephenville Campus	
^C *Any Core Course (1-3 credits)	MATH 1316 Plane Trigonometry OR MATH 1342 Elementary Statistics
^C *Life and Physical Sciences Core Elective (4 credits)	^C *Life and Physical Science Core Elective (4 credits)
^C ENGL 1302 Composition II	^C *Language, Philosophy and Culture Core Elective OR Creative Arts Core Elective
^C GOVT 2306 Texas Government	^C GOVT 2305 Federal Government
^C HIST 1301 United States History I	^C HIST 1302 United States History II

Total Semester Hours: 30-32

FIRST SEMESTER	SECOND SEMESTER
ENGT 3318 Research & Reporting for Technologists	ENGT 4336 Production Planning
ENGT 3375 Continuous Improvement	ENGT 3395 Project Management
ENGT 3386 Quality Management	ENGT 4346 Manufacturing Management
Advanced Elective Course	Advanced ENGT Course

Total Semester Hours: 12

Total Semester Hours: 12

Fourth Year - Tarleton State University

FIRST SEMESTER
ENGT 4347 Metrics and Measurement (Fall Only)
Advanced ENGT Course
Advanced Elective Course
Advanced Elective Course
Advanced Elective Course

Total Semester Hours: 15

Total Degree Hours: 129-131

This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.

Part-time students may also follow this sequence. Developmental coursework may be required.

¹ 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.

^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.

^A Course is taught in a 5-week format.

⁺ Must select Elective course from the following:

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

(I) Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

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

Approved: 2019-2020 Guided Pathway

^T Degree availability varies by campus; consult www.tarleton.edu for more information.