



**Associate of Applied Science in  
Air Conditioning and Refrigeration Technology to  
Bachelor of Applied Arts and Sciences in  
Manufacturing and Industrial Management  
Industrial Management Concentration<sup>T</sup>  
Guided Pathway  
Effective for the 2019-2020 catalog<sup>1</sup>**



**First Year – Eastfield College<sup>2</sup>**

FIRST SEMESTER	SECOND SEMESTER
HART 1401 – Basic Electricity for HVAC <sup>A</sup>	HART 1441 – Residential Air Conditioning
HART 1403 – Air Conditioning Control Principles <sup>A</sup>	HART 1445 – Gas and Electric Heating
HART 1407 – Refrigeration Principles <sup>A</sup>	HART 2449 – Heat Pumps
<sup>C</sup> ENGL 1301 – Composition I (010)	<sup>C</sup> MATH Elective* (020)

**Total Semester Hours: 15**

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**Second Year – Eastfield College**

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

FIRST SEMESTER	SECOND SEMESTER
HART 2342 – Commercial Refrigeration	HART 2368 – Practicum (or field experience)-Heating, Air Conditioning and Refrigeration <b>OR</b> HART 2380 – Cooperative Education-Heating, Air Conditioning and Refrigeration Technology/Technician
HART 2441 – Commercial Air Conditioning	HART 1451 – Energy Management
HART 2436 – Air Conditioning Troubleshooting	HART 2334 – Advanced Air Conditioning Controls
<sup>C</sup> Humanities/Fine Arts Elective* (040 OR 050)	<sup>C</sup> SPCH 1311 – Intro to Speech Communication (090)
	<sup>C</sup> PSYC 2301 – General Psychology (080)

**Total Semester Hours: 14**

**Total Semester Hours: 16**

**AAS: Air Conditioning and Refrigeration Technology (60 hours)**

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

**Total Semester Hours: 30-32**

**Third Year – Tarleton State University**

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

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**

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**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.

<sup>1</sup> 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 (15 hours) required for graduation through instruction by one of the seven colleges of the DCCCD awarding the degree.

<sup>C</sup> 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.

<sup>A</sup> 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.

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

**Approved: 2019-2020 Guided Pathway**

<sup>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

For questions about the university portion of this pathway,

Contact the Department of Engineering Technology at 254-968-9014 or [engineering.technology@tarleton.edu](mailto:engineering.technology@tarleton.edu).