



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



**First Year – Cedar Valley and 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     | 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> Mathematics Elective* (020) |

**Total Semester Hours: 15**

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**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  |
| <sup>C</sup> Humanities/Fine Arts Elective* (040 OR 050)     | HART 1394 – Special Topics in Heating, Air Conditioning and Refrigeration Mechanic and Repairer <b>OR</b> |
|  | HART 2380 – Cooperative Education-Heating, Air Conditioning and Refrigeration                             |
| <sup>C</sup> Humanities/Fine Arts Elective* (040 OR 050)     | <sup>C</sup> PSYC 2301 – General Psychology (080)   |
| <sup>C</sup> 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.

**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> ENGL 1302 Composition II   | <sup>C</sup> GOVT 2306 Texas Government                                   |
| <sup>C</sup> *Life & Physical Sciences Core Elective (4 credits)                                      | <sup>C</sup> *Life and Physical Science Core Elective (4 credits)         |
| <sup>C</sup> HIST 1301 United States History I  | MATH 1316 Plane Trigonometry <b>OR</b><br>MATH 1342 Elementary Statistics |
| <sup>C</sup> *Language, Philosophy and Culture Core Elective <b>OR</b><br>Creative Arts Core Elective | <sup>C</sup> HIST 1302 United States History II                           |
| <sup>C</sup> GOVT 2305 Federal Government   | <sup>C</sup> *Any Core Course (1-3 credits)                               |

| FIRST SEMESTER                                   | SECOND SEMESTER              |
|--|------------------------------|
| ENGT 3318 Research & Reporting for Technologists | Advanced ENGT Course         |
| Advanced ENGT Course                             | ENGT 3395 Project Management |
| Advanced ENGT Course                             | Advanced ENGT Course         |
| Advanced Elective Course                         | Advanced ENGT Course         |

**Total Semester Hours: 12**

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**Fourth Year - Tarleton State University**

| FIRST SEMESTER                   |
|----------------------------------|
| ENGT 3375 Continuous Improvement |
| 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.

+ Must select Elective course from the following:

- 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

( ) 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**

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