

AAS in Heating, Air Conditioning and Refrigeration Technology  
Residential HVAC/R Technician to  
Bachelor of Applied Arts and Sciences in  
Manufacturing and Industrial Management  
Industrial Management Concentration<sup>T</sup>  
**Guided Pathway**  
2019-2020 Catalog



**First Year - Tarrant County College District**

FIRST SEMESTER	SECOND SEMESTER
<b>HART 1401</b> - Basic Elect Heating, Vent & Air Cond	<b>HART 1441</b> - Residential Air Conditioning
<b>HART 1407</b> - Refrigeration Principles	<b>HART 2431</b> - Adv Electr Heat, Vent and Air Cond (HVAC)
<b>HART 2445</b> - Residential Air Cond Systems Design	<b>ENGL 1301 (010)</b> - Composition I <sup>C</sup>
<b>MATH 1332 (020)</b> - Contemporary Mathematics <sup>C*</sup>	<b>KINE 1164 (090)</b> - Introduction to Physical Fitness & Wellness <sup>C</sup>
	<b>SPCH 1321 (010)</b> - Business and Professional Comm <sup>C*</sup>

Total Semester Hours: 15

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**Second Year – Tarrant County College District**

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

FIRST SEMESTER	SECOND SEMESTER
<b>GOVT 2305(070)</b> - Federal Government <sup>C*</sup>	<b>HART 2449</b> - Heat Pumps
<b>HART 1403</b> - Air Conditioning Control Principles	<b>HART 2436</b> - Air Conditioning Troubleshooting
<b>HART 1445</b> - Gas and Electric Heating	<b>HART 2442</b> - Commercial Refrigeration <sup>*</sup>
<b>HART 2438</b> - Air Conditioning Installation and Startup	<b>ARTS 1301(050)</b> – Art Appreciation <sup>C*</sup>

Total Semester Hours: 15

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**AAS: Heating, Air Conditioning and Refrigeration Technology - Residential HVAC/R Technician**

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

**These courses may be completed at TCC (if offered) or TSU-Stephenville Campus**

<sup>C*</sup> Life and Physical Science Core Elective (4 credits) (030)	<sup>C*</sup> Life and Physical Science Core Elective (4 credits) (030)
<sup>C</sup> HIST 1301 – United States History I	<sup>C</sup> HIST1302 – United States History II
<sup>C</sup> GOVT 2306 – Texas Government	<sup>C*</sup> Language, Philosophy and Culture Core Elective (040)
MATH 1316 – Plane Trigonometry or MATH 1342 – Elementary Statistical Methods	<sup>C</sup> ENGL 1302 – Composition II
	<sup>C*</sup> Social and Behavioral Science Core Elective (080)

Total Semester Hours: 13

Total Semester Hours: 16

**Third Year – Tarleton State University**

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

Total Semester Hours: 12

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**Fourth Year – Tarleton State University**

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

Total Semester Hours: 15

Total Degree Hours: 128

**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.

\* You may take a different course to meet this requirement. A specific list is available from your advisor.

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

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

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