



AAS - Heating, Ventilation, Air Conditioning (HVAC) to
Bachelor of Applied Arts and Sciences
Manufacturing and Industrial Management
Industrial Management Concentration †
Guided Pathway
2019-2020 Catalog



First Year - Collin College

FIRST SEMESTER	SECOND SEMESTER
HART 1256 EPA Recovery Certification Preparation*	HART 2431 Advanced Electricity for HVAC*
HART 1301 Basic Electricity for HVAC*	HART 2438 Air Conditioning Installation and Startup*
HART 1307 Refrigeration Principles*	HART 2345 Residential Air Conditioning Systems Design*
HART 1441 Residential Air Conditioning*	HART 2349 Heat Pumps*
HART 1445 Gas and Electric Heating*	

Total Semester Hours: 16

Total Semester Hours: 14

Second Year - Collin College

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

FIRST SEMESTER	SECOND SEMESTER
HART 2341 Commercial Air Conditioning*	^C Social/Behavioral Science (see list below) - 3 hours
HART 2442 Commercial Refrigeration*	^C Natural Science (see list below) - 4 hours
^C Speech (see list below) - 3 hours	HART 2358 Testing, Adjusting, and Balancing HVAC Systems (Capstone)
HART 2334 Advanced A/C Controls*	^C ENGL 1301 Composition I
HART 2343 Industrial Air Conditioning*	^C Humanities (see list below) - 3 hours

Total Semester Hours: 16

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AAS: Heating, Ventilation, Air Conditioning (HVAC)

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 Collin College (if offered) or TSU-Stephenville Campus

^{C*} Creative Arts Elective (050)	^C GOVT 2306 Texas Government
^C ENGL 1302 – Composition II	^C GOVT 2305 Federal Government
^C HIST1301 United States History I	^C HIST 1302 United States History II
^{C*} Any Core Course (1-3 credits)	^{*C} MATH Core Elective
MATH 1316 Plane Trigonometry OR MATH 1342 Statistics	^{C*} Life and Physical Science Core Elective (4 credits)

Total Hours: 29-31

Third Year – Tarleton State University

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

Total Semester Hours: 15

Total Semester Hours: 12

Fourth Year - Tarleton State University

FIRST SEMESTER
ENGT 4346 Manufacturing Management
Advanced Elective Course
Advanced Elective Course
ENGT 4347 Metrics and Measurement (Fall Only)

Total Semester Hours: 12

Total Degree Hours: 130-132

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.

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

[†] Degree availability varies by campus; consult www.tarleton.edu for more information.

***Collin Options:**

Mathematics/Life & Physical Sciences – **BIOL** 1406, 1407, 1414, 1415, 2401, 2402, 2406, 2416, 2421, 1408, 1409, 2404, 2420, **CHEM** 1411, 1412, 2423, 2425, 1405, **GEOL** 1401, **ENVR** 1401, 1402, **GEOL** 1403, 1404, **PHYS** 1401, 1402, 2425, 2426, 1402, 1445, 1447, 1403, 1404, 1405, 1410, 1415, 1417

Humanities/Fine Arts - choose one from: **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, **HIST** 2311, 2312, 2321, 2322, **HUMA** 1301, **PHIL** 1301, 1304, 2303, 2306, 2307, 2321

Social and Behavioral Sciences – choose one from: **ECON** 1301, 2301, 2302, **PSYC** 2301

Speech – choose one from: **SPCH** 1311, 1315, 1321

*First 8 weeks

*Second 8 weeks

For questions about the University portion of this guided pathway,
Contact the Engineering Technology Department at (254)968-9010 or Engineering.Technology@tarleton.edu.