



AAS in Industrial Maintenance Technician to  
Bachelor of Applied Arts and Sciences in  
Manufacturing and Industrial Management  
Safety Management Concentration<sup>T</sup>  
**Guided Pathway**  
2019-2020 Catalog



**First Year - Tarrant County College District**

FIRST SEMESTER	SECOND SEMESTER
<b>CETT 1409</b> - DC-AC Circuits	<b>ELPT 2405</b> - Motors and Transformers
<b>INMT 1305</b> - Intro to industrial Maintenance	<b>RBTC 1401</b> - Programmable Logic Controllers
<b>HART 1407</b> - Refrigeration Principles	<b>WLDG 1428</b> - Intro Shielded Metal Arc Welding (SMAW)
<b>HART 1403</b> - Air Conditioning Control Principles	<b>ELMT 2337</b> - Electronic Troubleshooting, Service & Repair
Total Semester Hours: 15	Total Semester Hours: 15

**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>HYDR 1345</b> - Hydraulics and Pneumatics	<b>GOVT 2305(070)</b> – Federal Government <sup>C</sup>
<b>HYDR 1450</b> - Hydraulics, Fabrication & Repair	<b>ENGL 1301(010)</b> – Composition I <sup>C</sup>
<b>RBTC 1447</b> - Electro-Mechanical Devices	<b>SPCH 1321 (010)</b> - Business & Professional Communication <sup>C</sup>
<b>INMT 2488</b> – Internship-Manufacturing Technology/Technician	<b>MATH 1314(020)</b> – College Algebra <sup>C</sup>
Total Semester Hours: 15	Total Semester Hours: 12

**AAS: Industrial Maintenance 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> Any Core Applicable Course
<sup>C*</sup> Creative Arts Core Elective (050)	<sup>C*</sup> Social and Behavioral Science Core Elective (080)
	<sup>C</sup> ENGL 1302 – Composition II

Total Semester Hours: 16

Total Semester Hours: 17

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
Advanced ENGT Elective	ENGT 4320 Occupational Safety and Health
ENGT 3318 Research & Reporting for Technologists	ENGT 3395 Project Management
ENGT 3326 Ergonomics and Work Methods (Spring Only)	ENGT 3360 Safety Management
ENGT 3320 Industrial Safety	Advanced ENGT Elective

Total Semester Hours: 12

Total Semester Hours: 12

**Fourth Year – Tarleton State University**

FIRST SEMESTER
ENGT 3375 Continuous Improvement
Advanced Elective
Advanced Elective
Advanced Elective
Advanced Elective

Total Semester Hours: 15

Total Degree Hours: 129

**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.

<sup>()</sup> 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.