



AAS in Aviation Maintenance Technology-Powerplant 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
AERM 1101 - Introduction to Aviation	AERM 1340 - Aircraft Propellers
AERM 1205 - Weight and Balance	AERM 1344 - Aircraft Reciprocating Engines
AERM 1208 - Federal Aviation Regulations	AERM 1351 - Aircraft Turbine
AERM 1303 - Shop Practices	AERM 1456 - Aircraft Powerplant Electrical
AERM 1310 - Ground Operations	SPCH 1321 (010) - Business and Professional Communication <sup>C*</sup>
AERM 1314 - Basic Electricity	
AERM 1315 - Aviation Science	

Total Semester Hours: 17

Total Semester Hours: 16

**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
GOVT 2305 (070) - Federal Government (Federal Constitution & Topics) <sup>C*</sup>	AERM 2351 - Aircraft Turbine Engine Overhaul
MATH 1314 (020) - College Algebra <sup>C*</sup>	AERM 2547 - Aircraft Reciprocating Engine Overhaul
ARTS 1301 (050) - Art Appreciation <sup>C*</sup>	AERM 2252 - Aircraft Powerplant Inspection (Capstone)
ENGL 1301 (010) - Composition I <sup>C</sup>	AERM 2171 - Oral & Practical Exam, General
AERM 1357 - Fuel Metering & Induction Systems	AERM 2173 - Oral & Practical Exam, Powerplant

Total Semester Hours: 15

Total Semester Hours: 12

**AAS: Aviation Maintenance Technology-Powerplant**

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> Any Core Applicable Course (090) (1 credit minimum)	<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> GOVT 2306 – Texas Government	<sup>C*</sup> Social and Behavioral Science Core Elective (080)

Total Semester Hours: 14

Total Semester Hours: 16

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
ENGT 3318 Research & Reporting for Technologists	ENGT 3395 Project Management
Advanced ENGT Elective	Advanced ENGT Elective
Advanced ENGT Elective	Advanced ENGT Elective
Advanced ENGT Elective	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.

<sup>\*</sup> 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.

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