



AAS in Aviation Maintenance Technology-Airframe 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
AERM 1101 - Introduction to Aviation	AERM 1243 - Instruments & Navigation/Communication
AERM 1205 - Weight and Balance	AERM 1254- Aircraft Composites
AERM 1208 - Federal Aviation Regulations	AERM 1345 - Airframe Electrical Systems
AERM 1303 - Shop Practices	AERM 1347 - Airframe Auxiliary
AERM 1310 - Ground Operations	AERM 1349 - Hydraulic, Pneumatic, and Fuel Systems
AERM 1314 - Basic Electricity	AERM 1350 - Landing Gear Systems
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
AERM 1141 - Wood, Fabric and Finishes	ENGL 1301 (010) - Composition I <sup>C</sup>
AERM 1153 - Aircraft Welding	MATH 1314 (020) - College Algebra <sup>C*</sup>
AERM 1452 - Aircraft Sheet Metal	GOVT 2305 (070) - Federal Government (Federal Constitution & Topics) <sup>C*</sup>
AERM 2231 - Airframe Inspection (Capstone)	ARTS 1301 (050) - Art Appreciation <sup>C*</sup>
AERM 2233 - Assembly and Rigging	SPCH 1321 (010) - Business and Professional Communication <sup>C*</sup>
AERM 2171 - Oral & Practical Exams, General	
AERM 2172 - Oral & Practical Exams, Airframe	

Total Semester Hours: 12

Total Semester Hours: 15

**AAS: Aviation Maintenance Technology-Airframe**

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 (090) (1 credit minimum)
<sup>C</sup> ENGL 1302 – Composition II	<sup>C*</sup> Social and Behavioral Science Core Elective (080)

Total Semester Hours: 16

Total Semester Hours: 14

**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

Total Semester Hours: 12

**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.