

# Aerospace Technology Management, B.S.

The BS in Aerospace Technology Management from Utah Valley University is designed to prepare graduates for various technical aerospace professional roles across a products life cycle. Skills associated with air and space vehicle sustainability systems and risk management, customer management, project management, aftermarket services, business development, manufacturing and inspection processes, safety management systems, and process improvement will be learned and applied. The program will provide a completion degree for students who possess the Airframe and Powerplant ratings of an FAA issued Aircraft Maintenance Technician Certificate under the rules defined by FAR Part 65 or possess a license as an Aircraft Maintenance Engineer (Cat B1) issued under EASA Part 66 regulations.

## Matriculation Requirements

Completion of a Technical Specialty associated with FAA issued Airframe & Powerplant Maintenance Technician Certificate issued under rules of FAR Part 65 OR Completion of an Associates in Science or an Associates of Applied Science Degree from a regionally accredited institution of higher education with a designated technical specialty associated with FAA issued Airframe & Powerplant Maintenance Technician Certificate issued under the rules of FAR Part 147 OR possess a license as an Aircraft Maintenance Engineer (AME) (Cat B1) issued under EASA Part 66 regulations. A total not to exceed 45 credit hours will be awarded for evidence of the possession of the A&P or AME certificate.

## Program Requirements

Code	Title	Credit Hours
<b>Total Credit Hours</b>		<b>123</b>
<b>General Education Requirements</b>		<b>35 Credits</b>
ENGL 1010 or ENGL 1005	Introduction to Academic Writing CC Literacies and Composition Across Contexts CC	3
ENGL 2010	Intermediate Academic Writing CC	3
Complete one of the following:		3
MAT 1030	Quantitative Reasoning QL (3)	
MAT 1035	Quantitative Reasoning with Integrated Algebra QL (6)	
STAT 1040	Introduction to Statistics QL (3) (Recommended)	
STAT 1045	Introduction to Statistics with Algebra QL (5)	
MATH 1050	College Algebra QL (4)	
MATH 1055	College Algebra with Preliminaries QL (5)	
MATH 1090	College Algebra for Business QL (3)	
Complete one of the following:		3
POLS 1000	American Heritage AS (3)	
POLS 1100	American National Government AS (3)	
HIST 1700	American Civilization AS (3)	
HIST 1740	US Economic History AS (3)	
HIST 2700 & HIST 2710	US History to 1877 AS and US History since 1877 AS (6)	
Complete the following:		
PHIL 2050	Ethics and Values IH	3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE Fitness for Life TE	2
Distribution Courses:		
Biology		3
Physical Science (PHYS 1850 recommended)		3
Humanities (ENGL 2100 recommended)		3
Fine Arts		3
Social/Behavioral Science		3
Additional Biology or Physical Science (TECH 1010 or METO 1010 recommended)		3
<b>Technical Core Requirement</b>		<b>45 Credits</b>

Completion of a Technical Specialty associated with FAA issued Airframe & Powerplant Maintenance Technician Certificate issued under rules of FAR Part 65 OR Completion of an Associates in Science or an Associates of Applied Science Degree from a regionally accredited institution of higher education with a designated technical specialty associated with FAA issued Airframe & Powerplant Maintenance Technician Certificate issued under the rules of FAR Part 147 OR possess a license as an Aircraft Maintenance Engineer (AME) (Cat B1) issued under EASA Part 66 regulations. A total not to exceed 45 credit hours will be awarded for evidence of the possession of the A&P or AME certificate. 45

<b>Discipline Core Requirements</b>		<b>30</b>
		<b>Credits</b>
TECH 3400	Project Management WE	3
TECH 3850	Quality Management in Technology	3
AVSC 2150	Air Transportation Management	3
AVSC 3320	Aviation Managerial Accounting	3
AVSC 4500	Aerospace Aftermarket Support Services	3
AVSC 4550	Aerospace Vehicle Certification-Reliability-Maintainability Systems	3
AVSC 4950	Aerospace Technology Management Capstone Project WE	3
AVSC 410G	Global Ethical and Professional Issues in Aviation GI	3
Complete (2) of the following:		6
AVSC 3100	Corporate Aviation Management (3)	
AVSC 3020	Aviation Insurance and Risk Management (3)	
AVSC 3090	Airline and Dispatch Operations (3)	
AVSC 3310	Aviation Logistics Management (3)	
AVSC 3150	Principles of Aviation Management (3)	
AVSC 3350	Aviation Labor and Human Resource (3)	
AVSC 4160	Aviation Law WE (3)	

<b>Electives</b>		<b>13</b>
		<b>Credits</b>
Complete 13 upper division credits		13

## Graduation Requirements

1. Completion of a minimum of 123 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. No grade lower than a C- in any AVSC or TECH course.
4. Residency hours - Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
5. Completion of GE and specified departmental requirements.
6. Successful completion of at least one (1) Global/Intercultural course.

## Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track (<http://www.uvu.edu/wolverinetrack/>).

### First Year

<b>Semester 1</b>		<b>Credit Hours</b>
FAA issued Airframe and Powerplant Maintenance Technican Certificate AT UVU. Upon completion, student will be awarded 45 credits to apply towards the degree		45
<b>Credit Hours</b>		<b>45</b>
<b>Semester 2</b>		
ENGL 1010	Introduction to Academic Writing CC	3
STAT 1040 or STAT 1045	Introduction to Statistics QL or Introduction to Statistics with Algebra QL	3
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
Fine Arts		3
Social Science		3
Third Science		3
<b>Credit Hours</b>		<b>17</b>

**Second Year****Semester 3**

ENGL 2010	Intermediate Academic Writing CC	3
American Institutions		3
PHYS 1850	The Physics of Aviation PP	3
PHIL 2050	Ethics and Values IH	3
AVSC 2150	Air Transportation Management	3

<b>Credit Hours</b>		<b>15</b>
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**Semester 4**

Biology		3
ENGL 2100	Technical Communication HH WE	3
AVSC 3320	Aviation Managerial Accounting	3
AVSC 4500	Aerospace Aftermarket Support Services	3
TECH 3400	Project Management WE	3

<b>Credit Hours</b>		<b>15</b>
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**Third Year****Semester 5**

AVSC 4550	Aerospace Vehicle Certification-Reliability-Maintainability Systems	3
AVSC 410G	Global Ethical and Professional Issues in Aviation GI	3
AVSC Electives		3
UDE		3
Elective		4

<b>Credit Hours</b>		<b>16</b>
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**Semester 6**

TECH 3850	Quality Management in Technology	3
AVSC 4950	Aerospace Technology Management Capstone Project WE	3
AVSC Electives		3
UDE		3
UDE		3

<b>Credit Hours</b>		<b>15</b>
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<b>Total Credit Hours</b>		<b>123</b>
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**Program Learning Outcomes**

1. Evaluate current market conditions, customer requirements, and aerospace vehicle support requirements, and demonstrate the knowledge, skills, and procedures to successfully design an effective aerospace support organization in a simulated aerospace operations setting.
2. Identify in a teams setting a current issue and propose a viable solution through a formal report and presentation that will be associated with topics involving aerospace vehicles (or component) certification standards, regulatory requirements, maintenance planning, safety management, and training within one of the aerospace sectors.
3. Synthesize acquired knowledge, judgment, and expertise in an operational setting.