

# B.S. in Aviation Maintenance Science to M.S. in Aviation

This program is for exceptional students committed to continuing their education through the Master's degree. This fast-paced program allows qualifying students the opportunity to complete both the Bachelor of Science in Aviation Maintenance Science (BSAMS) degree and the Master of Science in Aviation (MSAV) in five academic years.

Upon completing the BSAMS requirements, the Bachelor of Science degree in Aviation Maintenance Science will be conferred, and students will be enrolled in the MSAV degree. In any graduate course taken by an undergraduate student, a grade of "B" or better must be earned. If a grade of "C" or "F" is earned in any of the MSA courses taken in lieu of the undergraduate courses in the BSAMS degree, the student will be removed from the MSAV program and may continue to complete the BSAMS degree only.

If the student chooses to leave the program before the completion of the MSAV program and has acquired the minimal hours required for graduation with the B.S. in Aviation Maintenance Science, any MSAV transition courses used to meet graduation requirements will be noted as undergraduate courses for the purpose of graduation.

## Approved Courses for the Combined Option

Students enrolled in the combined option must consult their academic advisor and the MSAV program coordinator to determine appropriate course selection. Up to three 500-level graduate MSA courses may be taken and will replace an equal number of undergraduate Area of Concentration courses or Upper-Level Open Elective courses in the BSAMS degree.

View BSAMS requirements

View MSAV requirements

## Combined Program Requirements

Undergraduate BSAMS Courses	117-118
MSAV Transition Courses	9
Graduate MSAV Courses	24
<b>Total Credits</b>	<b>150-151</b>

Students must fulfill the required MSAV core classes and any remaining courses from the transitional period that have not been completed.

## Suggested Plan of Study

Accepted students for the BSAMS to MSAV program can take up to three (3) MSA courses in lieu of an equal number of undergraduate Area of Concentration and/or Upper-level Elective credit courses. Before selecting the three MSA courses, students must confer with an advisor to ensure that the MSA courses selected are compatible with their BSAMS Area of Concentration and that they are in alignment with their chosen MSAV specialization.

A course grade of "B" or better must be earned on all graduate-level courses to be considered as satisfactory progress toward the MSAV degree. If a grade of C or F is earned in any of the MSA courses approved by the MSAV Program Coordinator, the student will be removed from the program and allowed to continue his or her education in the BSAMS degree as initially intended.

## AMS Area of Concentration - Flight (36 Credit hours)

AMSA 490	Aviation Technical Operations	3
AS 121	Private Pilot Operations	5
AS 221	Instrument Pilot Operations	3

AS 309	Aerodynamics	3
AS 310	Aircraft Performance	3
AS 321	Commercial Pilot Operations	3
AS 350	Domestic and International Navigation	3
MSA 515	Aviation/Aerospace Simulation Systems *	3
or MSA 516	Applications in Crew Resource Management	
WX 201	Survey of Meteorology	3
WX 301	Aviation Weather	3
<b>Flight Track</b>		
FA 121	Private Single Flight	1
FA 221	Instrument Single Flight	1
FA 321	Commercial Single Flight	1
FA 323	Commercial Multi Add On	1
<b>Total Credits</b>		<b>36</b>

\* These three (3) MSA courses will appear on the undergraduate transcript. These three (3) MSA courses will not be part of the master's transcript until the time of graduation.

## AMS Area of Concentration - Maintenance Management (36 Credit hours)

ACC 210	Financial Accounting	3
AMSA 490	Aviation Technical Operations	3
BA 201	Principles of Management	3
BA 225	Business Law	3
MSA 508	Advanced Airport Modeling *	3
BA 314	Human Resource Management	3
BA 320	Business Information Systems	3
BA 324	Aviation Labor Relations	3
BA 325	Social Responsibility and Ethics in Management	3
BA 411	Logistics Management for Aviation/Aerospace	3
FIN 332	Corporate Finance I	3
MK 220	Marketing	3
<b>Total Credits</b>		<b>36</b>

\* These three (3) MSA courses will appear on the undergraduate transcript. These three (3) MSA courses will not be part of the master's transcript until the time of graduation.

## AMS Area of Concentration - Safety Science (36 Credit hours)

AMSA 490	Aviation Technical Operations	3
SF 201	Introduction to Safety and Health	3
or SF 210	Introduction to Aerospace Safety	
SF 205	Principles of Accident Investigation	3
SF 315	Environmental Compliance and Safety	3
SF 316	Loss Control and Risk Management	3
SF 320	Human Factors in Aviation Safety	3
MSA 516	Applications in Crew Resource Management *	3
SF 365	Fire Protection	3
SF 462	Health, Safety, and Aviation Law	3

Choose one focus from the options below:

Aviation Focus Course List:

SF 330	Aircraft Accident Investigation	3
SF 375	Propulsion Plant Investigation	3
SF 335	Mechanical and Structural Factors in Aviation Safety	3
or SF 435	Aircraft Crash Survival Analysis and Design	

Occupational Safety Focus Course List:		
HSI 215	Introduction to Industrial Security	3
SF 355	Industrial Hygiene and Toxicology	3
SF 410	Industrial Safety and Health	3
or SF 440	Construction Safety and Health	
<b>Total Credits</b>		<b>36</b>

\* These three (3) MSA courses will appear on the undergraduate transcript. These three (3) MSA courses will not be part of the master's transcript until the time of graduation.

### **Master of Science in Aviation (MSAV) remaining required (24 Credit hours)**

MSAV Required Core Courses: 12 Credit Hours		
MSA 540	The Air Transportation System	3
MSA 662	Statistical Analysis for Aviation/Aerospace	3
MSA 670	Research Methods in Aviation/Aerospace	3
MSA 554	Project Management in Aviation Aerospace	3
or MSA 545	Human Factors in the Aviation/Aerospace Industry	
MSAV Specialization Courses		9
MSAV Second Specialization Courses or Elective Courses		9
MSA 691	Graduate Capstone Research Project	3
<b>Total MSAV Credits</b>		<b>33</b>
<b>Total Credits for Combined Program</b>		<b>150</b>