

M.S. in Aviation

Daytona Beach Program Requirements

Core Requirements	12
Specialization	9
Option	12
Total Credits	33

Core Requirements

ASCI 602	The Air Transportation System	3
ASCI 604	Human Factors in the Aviation/Aerospace Industry	3
or MSAV 554	Project Management in Aviation/Aerospace	
MSAV 662	Statistical Analysis for Aviation/Aerospace	3
MSAV 670	Research Methods in Aviation/Aerospace	3
Total Credits		12

Specializations

Aviation/Aerospace Management and Sustainability

Choose Three of the Following:		9
AASI 600	Sustainable Aviation and Aerospace Perspectives	
AMNT 609	Aircraft Maintenance Management	
MSAV 508	Advanced Airport Modeling	
MSAV 547	Leadership and Critical Decision Making in the Aviation Industry	
MSAV 573	Agent-based Modeling (ABM) for Aerospace and Aviation Systems	
MSAV 636	Advanced Aviation/Aerospace Planning Systems	
MSAV 641	Production and Procurement Management in the Aviation/Aerospace Industry	
MSAV 642	International Aviation Policy	
MSAV 644	Integrated Logistics Support in Aviation/Aerospace	
One AVMG, MGMT, or SCLM course may be selected with permission of the Program Coordinator		
Total Credits		9

Aviation/Aerospace Operations

Choose Three of the Following:		9
ASCI 516	Applications in Crew Resource Management	
MSAV 508	Advanced Airport Modeling	
MSAV 515	Aviation/Aerospace Simulation Systems	
MSAV 547	Leadership and Critical Decision Making in the Aviation Industry	
MSAV 562	Situation Awareness and Performance in Aviation/Aerospace	
MSAV 573	Agent-based Modeling (ABM) for Aerospace and Aviation Systems	
MSAV 619	Airport Certification and Operations Safety	
MSAV 620	Air Carrier Operations	
MSAV 622	Corporate Aviation Operations	
One AVMG, MGMT, or SCLM course may be selected with permission of the Program Coordinator		
Total Credits		9

Aviation/Aerospace Safety Systems

Choose Three of the Following:		9
ASCI 516	Applications in Crew Resource Management	
AVSF 611	Aviation/Aerospace System Safety	
MSAV 562	Situation Awareness and Performance in Aviation/Aerospace	
MSAV 608	Aviation/Aerospace Accident Investigation and Analysis	
MSAV 619	Airport Certification and Operations Safety	
MSAV 621	Aviation/Aerospace Safety Program Management	
Total Credits		9

Space Operations

Choose Three of the Following:		9
MSAV 513	Space Habitation and Life Support Systems	
MSAV 601	Applications in Space: Commerce, Defense, and Exploration	
SPAC 505	The Launch Industry	
SPAC 510	The Satellite Communications Industry	
SPAC 511	Geospatial Analytics	
SPAC 512	Human Spaceflight Industry	
SPAC 515	Cybersecurity Applications in Space	
SPAC 520	Principles of Space Systems	
Total Credits		9

Uncrewed Systems

Choose Three of the Following:		9
UNSY 502	Current Issues in Uncrewed and Autonomous Systems	
UNSY 503	Legal and Regulatory Issues in Uncrewed and Autonomous Systems	
UNSY 504	Application of Uncrewed and Autonomous Systems	
UNSY 603	Uncrewed and Autonomous Systems Operational Configuration	
UNSY 606	Uncrewed and Autonomous Systems Interoperability and Control	
UNSY 620	sUAS Operational Planning and Safety Management	
Total Credits		9

Options

Capstone Option

MSAV 691	Capstone Research Project	3
Open Electives *		9
Total Credits		12

* Open Electives: 500-600 level course (AASI, AMNT, ASCI, AVSF, MSAV, SPAC, UNSY)

Thesis Option

MSAV 700	Graduate Thesis	6
Open Electives *		6
Total Credits		12

* Open Electives: 500-600 level course (AASI, AMNT, ASCI, AVSF, MSAV, SPAC, UNSY)

Suggested Plans of Study

Note: If MSAV 552 prerequisite is required, can substitute for Open Elective; with dual specialization MSAV 552 will become excess credits.

Capstone Option (Single Specialization)

Year One

Requirements	Credits
ASCI 602 - The Air Transportation System	3
ASCI 604 - Human Factors in the Aviation/Aerospace Industry	3
MSAV 662 - Statistical Analysis for Aviation/Aerospace	3
Semester Hours	9

Requirements	Credits
MSAV 670 - Research Methods in Aviation/Aerospace	3
Specialization Course 1	3
Specialization Course 2	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 18

Year Two

Requirements	Credits
Specialization Course 3	3
Open Elective 1	3
Open Elective 2	3
Semester Hours	9

Requirements	Credits
Open Elective 3	3
MSAV 691 - Capstone Research Project	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 15

Capstone Option (Dual Specialization)

Year One

Requirements	Credits
ASCI 602 - The Air Transportation System	3
ASCI 604 - Human Factors in the Aviation/Aerospace Industry	3
MSAV 662 - Statistical Analysis for Aviation/Aerospace	3
Semester Hours	9

Requirements	Credits
MSAV 670 - Research Methods in Aviation/Aerospace	3
Specialization 1 Course 1	3
Specialization 1 Course 2	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 18

Year Two

Requirements	Credits
Specialization 1 Course 3	3
Specialization 2 Course 1	3
Specialization 2 Course 2	3
Semester Hours	9

Requirements	Credits
Specialization 2 Course 3	3
MSAV 691 - Capstone Research Project	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 15

Thesis Option (Single Specialization)

Year One

Requirements	Credits
ASCI 602 - The Air Transportation System	3
ASCI 604 - Human Factors in the Aviation/Aerospace Industry	3
MSAV 662 - Statistical Analysis for Aviation/Aerospace	3
Semester Hours	9

Requirements	Credits
MSAV 670 - Research Methods in Aviation/Aerospace	3
Specialization Course 1	3
Specialization Course 2	3
Semester Hours	9

Total Credits

Total Hours for All Requirements: 18

Year Two

Requirements	Credits
Specialization Course 3	3
Open Elective 1	3
MSAV 700 - Graduate Thesis	3
Semester Hours	9

Requirements	Credits
Open Elective 2	3
MSAV 700 - Graduate Thesis	3
Semester Hours	6

Total Credits

Total Hours for All Requirements: 15

Thesis Option (Dual Specialization)

Year One

Requirements	Credits
ASCI 602 - The Air Transportation System	3
ASCI 604 - Human Factors in the Aviation/Aerospace Industry	3

MSAV 662 - Statistical Analysis for Aviation/Aerospace	3
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Semester Hours	9
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Requirements	Credits
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MSAV 670 - Research Methods in Aviation/Aerospace	3
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Specialization 1 Course 1	3
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Specialization 1 Course 2	3
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Semester Hours	9
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Total Credits

Total Hours for All Requirements: 18

Year Two

Requirements	Credits
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Specialization 1 Course 3	3
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Specialization 2 Course 1	3
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MSAV 700 - Graduate Thesis	3
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Semester Hours	9
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Requirements	Credits
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Specialization 2 Course 2	3
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Specialization 2 Course 3	3
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MSAV 700 - Graduate Thesis	3
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Semester Hours	9
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Total Credits

Total Hours for All Requirements: 18