

B.S. in Aviation Maintenance Science (Part 147)

Daytona Beach Program Requirements

General Education Requirements	37
Core Requirements	48
Program Support Courses	18
Minor	12-15
Electives	6-9
Total Credits *	121 or 124 or 127

* The total credits required will vary depending on the selected minor.

General Education Requirements

Communication	9
COMM 122 English Composition	
COMM 219 Speech	
COMM 221 Technical Communication	
Humanities - Lower Level	3
Social Sciences - Lower Level	3
PSYC 101 Introduction to Psychology	
Humanities/Social Sciences - Lower or Upper Level	3
Humanities/Social Sciences - Upper Level	3
Computer Science/Information Technology	3
Mathematics	6
MATH 111 Pre-calculus for Aviation	
MATH 112 Applied Calculus for Aviation	
Physical/Life Sciences	7
PHYS 113 Introductory Physics I	
1 Credit Hour Lab Required	
Total Credits	37

Core Requirements

AMST 115	Aviation Mathematics and Physics	2
AMST 116	Fundamentals of Electricity	4
AMST 117	Tools, Materials and Processes	4
AMST 118	Aircraft Familiarization and Regulations	2
AMST 261	Aircraft Metallic Structures	3
AMST 262	Aircraft Composite Structures	3
AMST 263	General Aviation Aircraft Systems	3
AMST 264	General Aviation Aircraft Electrical and Instrument Systems	3
AMST 271	Aircraft Reciprocating Powerplant and Systems	3
AMST 272	Powerplant Electrical and Instrument Systems	3
AMST 273	Propeller Systems	2
AMST 274	Aircraft Turbines Powerplants and Systems	4
AMST 365	Transport Category Aircraft Systems	3
AMST 366	Transport Category Aircraft Electrical and Instrument Systems	3
AMST 375	Repair Station Operations	3

AMST 376	Powerplant Line Maintenance	3
Total Credits		48

Program Support Courses

AMSA 350	Aviation Connectivity and Cybersecurity	3
AMSA 420	Electronic Documentation and Aircraft Systems Troubleshooting	3
AMSA 490	Aviation Technical Operations	3
AVSF 210	Introduction to Aerospace Safety	3
CYBR 235	Computer and Network Technologies	3
MGMT 201	Principles of Management	3
Total Credits		18

Minor

Choose One of the Following Required Minors: **	12-15
Aviation Safety	
Avionics Line Maintenance	
Business Administration	
Cybersecurity Application and Management	
Total Credits	12-15

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- Minor in Aviation Safety (<https://catalog.erau.edu/programs/undergraduate/minors/aviation-safety/#daytonabeachtext>)
 - Minor in Avionics Line Maintenance (<https://catalog.erau.edu/programs/undergraduate/minors/avionics-line-maintenance/#daytonabeachtext>)
 - Minor in Business Administration (<https://catalog.erau.edu/programs/undergraduate/minors/business-administration/#daytonabeachtext>)
 - Minor in Cybersecurity Application and Management (<https://catalog.erau.edu/programs/undergraduate/minors/cybersecurity-application-and-management/#daytonabeachtext>)

Electives

Open Electives	6-9
Total Credits	6-9

Suggested Plan of Study

Year One

Requirements	Credits
AMST 115 - Aviation Mathematics and Physics	2
AMST 116 - Fundamentals of Electricity	4
AMST 117 - Tools, Materials and Processes	4
AMST 118 - Aircraft Familiarization and Regulations	2
COMM 122 - English Composition	3
Semester Hours	15

Requirements	Credits
AMST 261 - Aircraft Metallic Structures	3
AMST 262 - Aircraft Composite Structures	3
AMST 263 - General Aviation Aircraft Systems	3

AMST 264 - General Aviation Aircraft Electrical and Instrument Systems	3
MATH 111 - Pre-calculus for Aviation	3
Semester Hours	15

Requirements	Credits
AMST 365 - Transport Category Aircraft Systems	3
AMST 366 - Transport Category Aircraft Electrical and Instrument Systems	3
AMST 271 - Aircraft Reciprocating Powerplant and Systems	3
AMST 272 - Powerplant Electrical and Instrument Systems	3
MATH 112 - Applied Calculus for Aviation	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 45

Year Two

Requirements	Credits
AMST 273 - Propeller Systems	2
AMST 274 - Aircraft Turbines Powerplants and Systems	4
AMST 375 - Repair Station Operations	3
AMST 376 - Powerplant Line Maintenance	3
CPSC 120 - Introduction to Computing in Aviation	3
Semester Hours	15

Requirements	Credits
MGMT 201 - Principles of Management	3
AVSF 210 - Introduction to Aerospace Safety	3
CYBR 235 - Computer and Network Technologies	3
Humanities - Lower Level	3
Semester Hours	12

Total Credits

Total Hours for All Requirements: 27

Year Three

Requirements	Credits
AMSA 350 - Aviation Connectivity and Cybersecurity	3
COMM 221 - Technical Communication	3
PHYS 113 - Introductory Physics I	3
PHYS 113L - Introductory Physics I Laboratory	1
Minor Course	3
Open Elective - Upper Level	3
Semester Hours	16

Requirements	Credits
Minor Course	3
COMM 219 - Speech	3
PSYC 101 - Introduction to Psychology	3
Physical/Life Sciences	3
Semester Hours	12

Total Credits

Total Hours for All Requirements: 28

Year Four

Requirements	Credits
AMSA 420 - Electronic Documentation and Aircraft Systems Troubleshooting	3
Humanities/Social Sciences - Lower or Upper Level	3
Minor Course	3
Open Elective - Upper Level	3
Semester Hours	12

Requirements	Credits
AMSA 490 - Aviation Technical Operations	3
Humanities/Social Sciences - Upper Level	3
Open Elective - Upper Level (if BA minor)	3
Minor Course	3
Minor Course	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 27

* Degree totals and plan may change based on the selected minor.

Avionics Line Maintenance = 121 total credits

Aviation Safety = 124 total credits

Business Administration = 127 total credits

Cybersecurity Application and Management = 121 total credits