

B.S. in Aeronautics

Degree Requirements

The Bachelor of Science degree in Aeronautics requires successful completion of a minimum of 120 credit hours (typically 8 semesters). A minimum of 40 credit hours must be upper-level. The curriculum to be followed by each student will vary depending on any AAOC prior learning or transfer credits granted.

Program Requirements

General Education

Embry-Riddle degree programs require students to complete a minimum of 36 hours of General Education coursework. For a full description of Embry-Riddle General Education guidelines, please see the General Education section of this catalog.

Students may choose other classes outside of their requirements, but doing so can result in the student having to complete more than the degree's 120 credit hours. This will result in additional **time and cost** to the student.

Communication Theory and Skills	9
Computer Science/Information Technology	3
Mathematics	6
Physical and Life Sciences (Natural Sciences)	6
Humanities or Social Sciences	12
3 hours of Upper Level Humanities	
3 hours of Lower-Level Social Science	
3 hours of Lower-Level or Upper-Level Humanities or Social Science	
3 hours of Upper-Level Humanities or Social Science	
Total Credits	36

Aeronautics Core (44 Credits)

Aeronautics Core		
ACC 210	Financial Accounting *	3
or BA 201	Principles of Management	
COM 122	English Composition #	3
Economics Elective Lower-Level		3
General Education - Communications Elective #		6
General Education - Computer Science / Information Technology Elective #		3
General Education - Humanities Lower-Level Elective #		3
General Education - Natural Sciences (One course must include a laboratory) #		7
General Education - Social Science Lower-Level Elective #		3
MA 111	Pre-Calculus for Aviation #	3
or MA 140	College Algebra	
MA 112	Applied Calculus for Aviation #	3
or MA 222	Business Statistics	
PSY 101	Introduction to Psychology ((Social Science Lower-Level Elective)) #	3
PSY 350	Social Psychology (OR Humanities or Social Science Upper-Level Elective) **#	3
UNIV 101	College Success	1

Aviation Area of Concentration (40 Credits)

AS 120	Principles of Aeronautical Science	3-5
or AS 121	Private Pilot Operations	
or AS 125	Private and UAS Pilot Operations	
or AS 143	Private Helicopter Operations	

AS 207	Introduction to Aviation Research Methods	3
AS 405	Aviation Law	3
AS 480	Applied Aviation Research Methods (or Approved Internship)	3
or AS 410	Airline Dispatch Operations	
or AS 490	Helicopter Specialty Capstone	
Advanced standing credit and/or non-duplicating credit from Aviation Maintenance Science, Aviation Maintenance Technology, Aeronautical Science, Air Traffic Management, CEA, Flight Airplane, Flight Helicopter, Geoscience, Safety Science, or Weather courses		26-28

Professional Development Electives (21 Credits)

Accounting, Aviation Maintenance Science, Aeronautical Science, Air Traffic Management, Business Administration, Computer Science, Cyber Intelligence, Economics, Geoscience, Finance, Safety Science, Simulation Science, or Weather Upper-Level Electives	21
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Open Electives (15 Credits)

Open Electives	15
Total Credits	120

* Offered in Fall Only

** Offered in Spring Only

General Education Courses

All Army ROTC students are required to complete SS 321 - U.S. Military History 1900-Present (3 credits) in order to commission.