B.S. in Air Traffic Management

Degree Requirements

The Bachelor of Science degree in Air Traffic Management requires successful completion of a minimum of 122 semester hours, normally completed in eight semesters. A minimum of 40 semester hours must be upper-level.

Students must select and complete one minor field of study, as approved by the Applied Aviation Sciences Department. Total credits within the minor will vary depending on which minor is chosen. Students typically select a minor that will enhance their aviation career.

Students should be aware that several courses in each academic year might have prerequisites and/or corequisites. Please check the course descriptions in this catalog before registering for classes to ensure requisite sequencing.

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 and Social Sciences	12
3 hours of Lower-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**

Air Traffic Management Core (107 Credits)

The following course of study outlines the quickest and most cost-efficient route for students to earn their B.S. in Air Traffic Management. Students are encouraged to follow the course of study to ensure they complete all program required courses and their prerequisites within four years.

Courses in the core with a # will satisfy general education requirements.

Accounting, Business Administration, or Economics Upper-Level Elective		3
AS 121	Private Pilot Operations	5
AS 125	Private and UAS Pilot Operations	3
AS 207	Introduction to Aviation Research Methods	3
AS 221	Instrument Pilot Operations	3
AS 221L	Instrument Pilot Operations Laboratory	1
AS 309	Aerodynamics	3
AS 310	Aircraft Performance	3
AS 350	Domestic and International Navigation	3
AS 359	Aviation Stress Management	3
AS 405	Aviation Law	3

AS 410	Airline Dispatch Operations	3
AS 480	Applied Aviation Research Methods	3
AT 202	Introduction to Air Traffic Management	3
AT 305	Introduction to Terminal Radar Operations	3
AT 315	Introduction to Air Traffic Control Tower	3
AT 401	Advanced Terminal Radar Operations	3
AT 405	En route Radar Operations	3
AT 415	Advanced Air Traffic Control Tower [**]	3
BA 201	Principles of Management	3
COM 122	English Composition [#]	3
General Education - Communication Theory and Skills Elective [#]		6
General Education - Computer Science/Information Technology Elective [#]		3
General Education - Humanities Lower-Level Elective [#]		3
General Education - Social Science Lower-Level Elective [#]		3
General Education - Humanities or Social Science Lower-Level Elective [#]		3
General Education - Humanities or Social Science Upper-Level Elective [#]		3
General Education - Natural Science Elective [#]		3
GEO 210	Introduction to Geographic Information Systems	3
MA 111	Pre-Calculus for Aviation [#]	3
MA 112	Applied Calculus for Aviation [#]	3
SF 210	Introduction to Aerospace Safety	3
WX 201	Survey of Meteorology [#]	3
WX 203L	Survey of Meteorology Laboratory [#]	1
WX 301	Aviation Weather	3
UNIV 101	College Success	1
Total Credits		**107**

Minor Requirement (15 Credits)

Minor [*]	15
Total Credits	**122**

[*] Students must complete at least one minor.
[**] Offered in Spring Only
[#] General Education Course

Air traffic controllers are required to possess a current FAA 2nd Class or higher medical certificate to receive and exercise the privileges of their FAA Air Traffic Controller certificates. Students should verify their eligibility status for this level medical certificate with an FAA designated medical examiner prior to enrolling in this degree program. The medical certificate is not required for ATM courses or degree enrollment.

Prospective air traffic controllers must be able to complete their university education and have entered the FAA Air Traffic Control Academy prior to reaching their 31st birthday.

FAA air traffic controllers must be U.S. citizens.

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