

A.S. in Air Traffic Management

The Associate of Science in Air Traffic Management is offered at the Daytona Beach, Florida, campus and the Prescott, Arizona, campus of Embry-Riddle Aeronautical University. The program provides instruction in foundational air traffic procedures, communication skills, and aviation safety protocols in aviation-focused environments supported by instructional staff and training resources.

At the **Daytona Beach Campus**, the Associate of Science in Air Traffic Management is designed to prepare students for air traffic control roles. The program focuses on Terminal (Tower) operations through the FAA's Enhanced Air Traffic Collegiate Training Initiative (AT-CTI), which allows graduates to enter the field following program completion rather than continuing training at the FAA Academy. Students use simulation laboratories and complete hands-on training in air traffic control using industry-relevant tools, equipment, and procedures. Courses are shared with the Bachelor of Science in Air Traffic Management.

At the **Prescott Campus**, the Associate of Science in Air Traffic Management is offered through the Department of Applied Aviation Sciences. The program focuses on Terminal (Tower) operations through the FAA's Enhanced Air Traffic Collegiate Training Initiative (AT-CTI), which allows graduates to enter the field following program completion rather than continuing training at the FAA Academy. Students use simulation laboratories and complete hands-on training in air traffic control using industry-relevant tools, equipment, and procedures. Courses are shared with the Bachelor of Science in Air Traffic Management.

Program-Level Student Learning Outcomes

Students will:

- Apply accepted practices in air traffic management to analyze a cumulative knowledge of collaborative air traffic management, traffic flow management, and advanced air traffic management procedures.
- Conduct operations using high-fidelity simulation in a low volume terminal radar environment related to radar separation and procedures.
- Recall information on the basics of air traffic control, including its history, mission, and duty priority.
- Conduct operations using high-fidelity simulation in the airport terminal environment related to VFR Control Tower operations.

Daytona Beach Program Requirements

General Education Requirements	18
Core Requirements	16
Program Support Courses	18
Electives	9
Total Credits	61

General Education Requirements

Communication	6
COMM 122 English Composition	
COMM 219 Speech	
or COMM 22 Technical Communication	
or COMM 22 Business Communication	
or COMM 22 Intelligence Communication	
Humanities - Lower Level	3
Social Sciences - Lower Level	3
Computer Science/Information Technology	3

Mathematics	3
Total Credits	18

Core Requirements

ATMG 202	Introduction to Air Traffic Management	3
ATMG 305	Introduction to Terminal Radar Operations	3
ATMG 306	Safety in Air Traffic Management	3
ATMG 315	Introduction to Air Traffic Control Tower	3
ATMG 415	Advanced Air Traffic Control Tower	3
ATMG 417	Practicum in Air Traffic Control Tower Operations	1
Total Credits		16

Program Support Courses

AVMG 415	Airline Management	3
AVSF 210	Introduction to Aerospace Safety	3
MGMT 201	Principles of Management	3
MGMT 324	Aviation Labor Relations	3
WEAX 201	Introduction to Meteorology	3
WEAX 301	Aviation Weather	3
Total Credits		18

Electives

Open Electives	9
Total Credits	9

Suggested Plan of Study

Year One

Requirements	Credits
ATMG 202 - Introduction to Air Traffic Management	3
COMM 122 - English Composition	3
MATH 111 - Pre-calculus for Aviation	3
WEAX 201 - Introduction to Meteorology	3
MGMT 201 - Principles of Management	3
Semester Hours	15

Requirements	Credits
ATMG 305 - Introduction to Terminal Radar Operations	3
ATMG 315 - Introduction to Air Traffic Control Tower	3
Computer Science/Information Technology	3
Humanities - Lower Level	3
Open Elective	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 30

Year Two

Requirements	Credits
ATMG 415 - Advanced Air Traffic Control Tower	3
AVMG 415 - Airline Management	3

AVSF 210 - Introduction to Aerospace Safety	3
WEAX 301 - Aviation Weather	3
Open Elective	3
Semester Hours	15

Requirements	Credits
MGMT 324 - Aviation Labor Relations	3
ATMG 417 - Practicum in Air Traffic Control Tower Operations	1
ATMG 306 - Safety in Air Traffic Management	3
Social Sciences - Lower Level	3
Communication	3
Open Elective	3
Semester Hours	16

Total Credits

Total Hours for All Requirements: 31

Prescott Program Requirements

General Education Requirements	18
Core Requirements	16
Program Support Courses	18
Electives	9
Total Credits	61

Program Details

The Associate of Science in Air Traffic Management program requires successful completion of a minimum of 61 credit hours. The program may be completed in four semesters, or two years, assuming appropriate background and full-time enrollment. Students pursuing this undergraduate degree must earn a minimum cumulative grade point average (CGPA) of 2.00 for all work completed at the University. The courses necessary to earn this degree are listed below.

Students should be aware that many courses have prerequisites and/or corequisites. Students are responsible for ensuring that all prerequisite and degree requirements are met prior to enrollment in advanced coursework. Air traffic controllers are required to possess a current FAA Second Class Medical Certificate or higher to receive and exercise the privileges of an FAA Air Traffic Controller certificate; however, a medical certificate is not required for enrollment in the degree program or Air Traffic Management coursework. Prospective air traffic controllers must be able to complete their university education and enter the FAA Air Traffic Control Academy prior to reaching their 31st birthday and must be U.S. citizens.

General Education Requirements

Communication	6
COMM 122 English Composition	
COMM 219 Speech	
or COMM 22Technical Communication	
or COMM 22Business Communication	
or COMM 22Intelligence Communication	
Humanities - Lower Level	3
Social Sciences - Lower Level	3
Computer Science/Information Technology	3
Mathematics	3
Total Credits	18

Core Requirements

ATMG 202	Introduction to Air Traffic Management	3
ATMG 305	Introduction to Terminal Radar Operations	3
ATMG 306	Safety in Air Traffic Management	3
ATMG 315	Introduction to Air Traffic Control Tower	3
ATMG 415	Advanced Air Traffic Control Tower	3
ATMG 417	Practicum in Air Traffic Control Tower Operations	1
Total Credits		16

Program Support Courses

AVMG 415	Airline Management	3
AVSF 210	Introduction to Aerospace Safety	3
MGMT 201	Principles of Management	3
MGMT 324	Aviation Labor Relations	3
WEAX 201	Introduction to Meteorology	3
WEAX 301	Aviation Weather	3
Total Credits		18

Electives

Open Electives	9
Total Credits	9

Suggested Plan of Study

Year One

Requirements	Credits
ATMG 202 - Introduction to Air Traffic Management	3
COMM 122 - English Composition	3
MATH 111 - Pre-calculus for Aviation	3
WEAX 201 - Introduction to Meteorology	3
Computer Science/Information Technology	3
Semester Hours	15

Requirements	Credits
ATMG 305 - Introduction to Terminal Radar Operations	3
ATMG 315 - Introduction to Air Traffic Control Tower	3
MGMT 201 - Principles of Management	3
Humanities - Lower Level	3
Open Elective	3
Semester Hours	15

Total Credits

Total Hours for All Requirements: 30

Year Two

Requirements	Credits
ATMG 306 - Safety in Air Traffic Management	3
ATMG 415 - Advanced Air Traffic Control Tower	3
AVSF 210 - Introduction to Aerospace Safety	3
AVMG 415 - Airline Management	3

Open Elective	3
---------------	---

Semester Hours	15
-----------------------	-----------

Requirements	Credits
---------------------	----------------

ATMG 417 - Practicum in Air Traffic Control Tower Operations	1
--	---

COMM 219 - Speech	3
-------------------	---

MGMT 324 - Aviation Labor Relations	3
-------------------------------------	---

WEAX 301 - Aviation Weather	3
-----------------------------	---

Open Elective	3
---------------	---

Social Sciences - Lower Level	3
-------------------------------	---

Semester Hours	16
-----------------------	-----------

Semester Hours	16
-----------------------	-----------

Total Credits

Total Hours for All Requirements: 31