

Aeronautical Management Technology (Air Traffic Management), BS

ESAMTATBS

Are you dreaming of working in aeronautics? Apply your passion for aviation to a career in air traffic management. You will gain the technical, business and communication skills needed to thrive in this critically important field.

Program description

The BS program in aeronautical management technology with a concentration in air traffic management provides a technical foundation in the air traffic control procedures used by air traffic controllers in control towers and radar facilities.


Students gain a strong background in aircraft operations and business principles, and gain management skills through coursework specific to air traffic control and aviation. As part of the degree program, students are required to take courses that will qualify them to earn their airline dispatcher certificate.

This is an intensive program of classroom study and laboratory practice using state-of-the-art air traffic control simulators to enhance and reinforce classroom study. Students receive training in the methodologies and technologies that are currently being developed for the next generation of air traffic control systems. Students develop the skills of analytical thinking, clear and concise communication, problem-solving and teamwork.

ASU is a partner in the FAA Air Traffic Collegiate Training Initiative and is accredited by the Aviation Accreditation Board International.

At a glance

- **College/School:** [Ira A. Fulton Schools of Engineering](#)
- **Location:** [Polytechnic](#)

- **Second language requirement:** No
- **First required math course:** MAT 170 - Precalculus
- **Math intensity:** Moderate 

Required courses (Major Map)

[2024 - 2025 Major Map](#)

[Major Map \(Archives\)](#)

Concurrent program options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Accelerated program options

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an **accelerated bachelor's plus master's degree** with:

[Technology \(Aviation Management and Human Factors\), MSTech](#)

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and [how to apply](#).

Admission requirements

General university admission requirements:

All students are required to meet general university admission requirements.

[First-year](#) | [Transfer](#) | [International](#) | [Readmission](#)

Additional requirements:

The Federal Aviation Administration has minimum requirements for employment in civil aviation. Students should see https://www.faa.gov/jobs/career_fields/aviation_careers for more information. Graduates of the program are not guaranteed employment by the FAA. Students who do not have U.S. citizenship may be admitted to the program but are not eligible for employment by the FAA.

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Change of Major Requirements

A current ASU student must have a minimum cumulative ASU GPA of a 2.00 (scale is 4.00 = "A").

Students should visit the [Change of Major form](#) for information about how to change a major to this program.

Transfer options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use [MyPath2ASU®](#) to outline a list of recommended courses to take prior to transfer.

ASU has [transfer partnerships](#) in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and they help students save time and money in their college journey.

Global opportunities

Global experience

With more than 300 [Global Education program opportunities](#) available, aeronautical management technology students are able to tailor their experience to their unique interests and skill sets. Whether in a foreign country, in the U.S. or online, students build communication skills, learn to adapt and persevere, and are exposed to research and internships across the world, increasing their professional network.

Career opportunities

The Federal Aviation Administration's 2020 Controller Workforce Plan projects that the agency plans to hire more than 8,500 new controllers by 2029 to keep pace with the expected attrition rate and traffic growth. A total of 9,596 new controllers are expected to be hired in the period 2019 to 2029. The increase in the volume of air traffic requires more controllers to handle the additional work. New computerized systems assist controllers by automatically making many of the routine decisions, allowing controllers to handle more traffic and thus increasing their productivity.

Despite the obvious demand for new controllers in the immediate future, competition to get into the FAA-approved training programs is expected to remain intense because there are generally many more applicants than openings. Graduates who have met all the FAA requirements are eligible for consideration for employment.

Example job titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience and geographical location may affect pay scales. Some jobs also may require advanced degrees, certifications or state-specific licensure.

Career	*Growth	*Median salary
<u>Air Traffic Controller</u>	1.4%	\$132,250
<u>Airport Operations Specialist</u> ☀️	4.9%	\$49,600
<u>Distribution Center Manager</u> ☀️	8.2%	\$98,560
<u>Emergency Service Dispatcher (Police, Fire, Ambulance)</u>		\$44,830

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

☀️ [Bright Outlook](#)

Professional licensure

ASU programs that may lead to professional licensure or certification are intended to prepare students for potential licensure or certification in Arizona. Completion of an ASU program may not meet educational requirements for licensure or certification in another state. For more information, students should visit the [ASU professional licensure](#) webpage.

Students should note that not all programs within the Fulton Schools of Engineering lead to professional licensure.

Contact information

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