Aeronautical Management Technology (Air Traffic Management), BS

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, management skills and business principles 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.

The Aviation Accreditation Board International accredits this program and the Federal Aviation Administration certifies flight and ground instruction.

ASU offers programs that lead to professional licensure with the state of Arizona and may allow graduates to be eligible for licensure in other states. Students should check the professional licensure list for the Ira A. Fulton Schools of Engineering to determine if this program meets requirements in their state: https://asuonline.asu.edu/about-us/licensure/. Students should note that not all programs within the Fulton Schools of Engineering lead to professional licensure.

At a Glance

- College/School: Ira A. Fulton Schools of Engineering
• **Location:** Polytechnic campus

• **Additional Program Fee:** Yes
• **Second Language Requirement:** No
• **First Required Math Course:** MAT 170 - Precalculus
• **Math Intensity:** Moderate

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**Required Courses (Major Map)**

2021 - 2022 Major Map  
Major Map (Archives)

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**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 and master's degree with:

Technology (Aviation Management and Human Factors), MSTech

Acceptance to the graduate program requires a separate application. During their junior year, eligible students are advised by their academic departments to apply.

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**Admission Requirements**

**General University Admission Requirements:**  
All students are required to meet general university admission requirements.  
[Freshman](#) | [Transfer](#) | [International](#) | [Readmission](#)

**Additional Requirements:**

To be considered for employment by the Federal Aviation Administration, graduates of the program need to be aware of minimum requirements for employment. Students should see [https://www.faa.gov/jobs/career_fields/aviation_careers](https://www.faa.gov/jobs/career_fields/aviation_careers) for more information. Graduates of the program are not guaranteed employment by the Federal Aviation Administration. Students who do not have U.S. citizenship may be admitted to the program but are not eligible for employment by the Federal Aviation Administration.

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**Change of Major Requirements**

A current ASU student has no additional requirements for changing majors.

Students should refer to [https://changemajor.apps.asu.edu](https://changemajor.apps.asu.edu) 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 help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/pathway-programs.

Global Opportunities

Global Experience

With over 250 programs in more than 65 countries (programs vary in length, from one week to one year), study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st century career. Students earn ASU credit for completed courses, while staying on track for graduation, and they may apply financial aid and scholarships toward program costs. https://goglobal.asu.edu/

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. The total number of planned hires for the period of 2019-2029 is 9,596 new controllers. 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 as there generally are many more applicants than there are openings. Graduates who have met all the FAA requirements are eligible for consideration for employment.

Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Traffic Controller</td>
<td>0.5%</td>
<td>$130,420</td>
</tr>
<tr>
<td>Airport Operations Specialist</td>
<td>6.1%</td>
<td>$51,330</td>
</tr>
<tr>
<td></td>
<td>3.5%</td>
<td>$96,390</td>
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<td>--------------------------------------</td>
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<tr>
<td>Distribution Center Manager</td>
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<tr>
<td>Emergency Service Dispatcher (Police, Fire, Ambulance)</td>
<td></td>
<td>$40,980</td>
</tr>
<tr>
<td>Logistics Manager</td>
<td>3.5%</td>
<td>$96,390</td>
</tr>
</tbody>
</table>

* 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  🌿 Green Occupation

**Contact Information**

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