Aeronautical Management Technology (Air Traffic Management), BS

ESAMTATBS

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 air traffic control towers and air traffic control 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 a 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 develop the following skills:

- analytical thinking
- clear and concise communication
- problem-solving
- teamwork

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

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Polytechnic campus
- **Additional Program Fee:** No
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 170 - Precalculus
- **Math Intensity:** Moderate
Required Courses (Major Map)

2018 - 2019 Major Map
Major Map (Archives)

Accelerated Degrees

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 will be advised by their academic departments to apply.

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. See 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 will not be eligible for employment by the Federal Aviation Administration.

Change of Major Requirements

A current ASU student has no additional requirements for changing majors. Students should refer to https://students.asu.edu/changingmajors for information about how to change a major to this program.

Global Opportunities
Global Experience

With over 250 programs in more than 65 countries (ranging 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 may apply financial aid and scholarships toward program costs. [https://mystudyabroad.asu.edu/](https://mystudyabroad.asu.edu/).

Career Opportunities

The Federal Aviation Administration's 2016 Controller Workforce Plan has projected that the agency plans to hire more than 7,400 new controllers over the next five years to keep pace with the expected attrition rate and traffic growth. The total number of planned hires for the period of 2016--2025 is 12,088 new controllers. Increases in the volume of air traffic will require more controllers to handle the additional work. New computerized systems will assist controllers by automatically making many of the routine decisions. This will allow controllers to handle more traffic, thus increasing their productivity.

To prepare for this challenge, students receive training in the methodologies and technologies that are currently being developed for the next generation of air traffic control systems. 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 will be 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>Emergency Service Dispatcher (Police, Fire, Ambulance)</td>
<td></td>
<td>$38,790</td>
</tr>
<tr>
<td>Logistics Manager</td>
<td>6.7%</td>
<td>$92,460</td>
</tr>
<tr>
<td>Transportation Dispatcher</td>
<td>6.7%</td>
<td>$92,460</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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