

Technology (Aviation Management and Human Factors), MSTech

TSHFMSTECH

Program description

Degree awarded: MSTech Technology (Aviation Management and Human Factors)

The MSTech degree program offers a concentration in aviation management and human factors.

Students in this program are provided with professional skills and exposed to educational theory and practice for use in leadership positions within the aviation industry. Management and leadership positions at airports of all sizes require skills in labor management and policy, economics and analysis, national aerospace structure and aviation law, as well as an awareness of unmanned systems and flight operations. Those interested in the human systems and safety area find exceptional use of educational discussions on human performance and the human limitations and capabilities of working within a complex system.

Courses are offered at ASU's Polytechnic campus, with some offered as iCourses.

At a glance

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

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:

[Aeronautical Management Technology \(Air Traffic Management\), BS](#)

[Aeronautical Management Technology \(Air Transportation Management\), BS](#)

[Aeronautical Management Technology \(Professional Flight\), BS](#)

Aeronautical Management Technology (Unmanned Aerial Systems), BS

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](#).

Degree requirements

33 credit hours and a portfolio, or

33 credit hours and a thesis, or

33 credit hours including the required applied project course (AMT 593)

Required Core (12 credit hours)

Restricted Electives (3--21 credit hours)

Human Factors Track Option (12 or 15 credit hours)

Aviation Management Track Option (12 or 15 credit hours)

Culminating Experience (0--6 credit hours)

AMT 593 Applied Project (3) or

AMT 599 Thesis (6) or

portfolio (0)

Additional Curriculum Information

The detailed design of the graduate student's program requirements with the selection of the required courses is the responsibility of the student and the supervisory committee chair and committee members.

Students in this graduate program also have the opportunity to enroll in human systems engineering (prefix HSE) and technological entrepreneurship and management (prefix TEM) graduate courses. Students may focus their study on courses that best prepare them for their career or for the next step in their educational process.

Applied project students complete 15 credit hours (five track courses), and thesis students complete 12 credit hours (four track courses) selected in consultation with an advisor. In addition, three credit hours of AMT elective coursework are chosen in conjunction with the student's advisor or committee. Students who do not select a track complete 15 or 18 credit hours from the restricted electives list or other courses approved by the student's supervisory committee. All students in the aviation management and human factors concentration must take at least five AMT graduate courses.

The portfolio option demonstrates a high level of mastery of the principles and practice of aviation management and human factors through a compilation of work the student completes through the course of their graduate study. While the specific details depend on the student's specialization, all portfolios must describe three notable projects or academic accomplishments that illustrate the evolution and

advancement of the student's technical expertise and mastery of the field of aviation management and human factors. The submission must include a written document that includes an overview of the graduate experience and descriptions of projects presented in the portfolio.

Admission requirements

Applicants must fulfill the requirements of both the Graduate College and the Ira A. Fulton Schools of Engineering.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in a STEM field from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in their first bachelor's degree program or in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in nine semester hours of graduate coursework from a U.S. institution or in an applicable conferred master's degree program.

Applicants must submit:

1. graduate admission application and application fee
2. official transcript from each college or university attended
3. personal statement
4. professional resume
5. three letters of recommendation
6. proof of English proficiency

Additional Application Information

An applicant whose native language is not English must provide proof of [English proficiency](#) regardless of their current residency.

Unofficial transcripts may be submitted at the time of application. If admitted, applicants must then submit official transcripts to ASU Graduate Admission Services.

If the applicant does not meet the minimum GPA requirements, the application may still be considered. In certain cases, demonstrated aptitude through professional experience or additional postbaccalaureate education is considered.

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.

Application deadlines

Fall

Spring [expand](#)

[expand](#)

Career opportunities

The program's focus is on preparing graduates for a career in the aviation industry, and it can serve as the foundation for further advanced study. Graduates of this program possess technical and professional skills for use in leadership positions in the aviation industry.

Contact information

[Aviation Programs](#) | SUTON 240

polygrad@asu.edu | 480-727-1874