Technology (Aviation Management and Human Factors), MSTech

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 the Polytechnic campus, with some courses offered as iCourses.

At a Glance

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

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:

- 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
Air Traffic Management, BS

Acceptance to the graduate program requires a separate application. During their junior year, eligible students are advised by their academic departments 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 along with 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 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 any field, from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") 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 an applicable master's degree program.

Applicants must submit:

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

Additional Application Requirements

An applicant whose native language is not English must provide proof of English proficiency regardless of current residency. Applicants should see the Graduate Admission Services website at https://globallaunch.asu.edu/learn-english/online-english/english-for-admission.

Global Launch at ASU offers an online alternative to standardized testing for international students who are seeking admission to ASU but need proof of English proficiency.

https://learnenglish.asu.edu/online/admission

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.

A GRE waiver may be requested if the applicant received a bachelor's degree in a related field from the United States with a cumulative GPA of 3.00 or better. Engineering programs must have a bachelor's degree from an ABET-accredited program. Applicants should email polygrad@asu.edu to request a waiver. Applicants can also submit a GRE waiver request form if they have five years of full-time applicable professional experience:
An approved waiver does not guarantee admission.

Application Deadlines

Fall

Spring

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 | WANER 101
polygrad@asu.edu | 480-727-4723