# AABInternational

| | Arizona State University |
|---|---|
| | **Ira A. Fulton Schools of Engineering** |
| | **B.S. Aeronautical Management Technology, Air Traffic Management** |
| **November 2022** | **Student Achievement Data** |

## Aviation Program Objectives

The ASU Professional Flight Program has established the following objectives:

**Societal Relevance and a Community Resource**

•Increase opportunities for undergraduate and graduate student academic success and prepare the student for entry into the aviation community upon graduation by strengthening collaboration and partnership efforts with the air transportation industry.

•Seek business and industry input to academic program development to ensure graduates are trained and educated to meet the needs of the air transportation industry.

•Increase collaborative research opportunities with other University Aviation Association (UAA) colleges and universities, particularly those accredited by the Council on Aviation Accreditation, by expanding the graduate program.

•Increase the number of collaborative relationships or partnerships between ASU and businesses, organizations, government agencies, etc.

•Continue to develop specific high altitude physiology short course formats to serve the needs of the air transportation industry that will make the altitude chamber operation self-sufficient.

**Campus Community and Learning Environment**

•Attract all qualified undergraduate and graduate students, enhance the number of special opportunities available, increase student academic success, and increase and promote faculty and student involvement in community and public service activities.

•Increase the percent of faculty involved in providing consulting or professional services to the general community.

•Actively enhance opportunities on ASU's Polytechnic campus for women, minorities, individuals with disabilities and veterans, which will prepare the student for transition into the international aviation community upon graduation by developing an appreciation and respect for diversity in the workplace.

## Core Academic Experiences

•Create and improve resources available on ASU's Polytechnic campus for instruction, research and creative activity, and professional service.

•Develop opportunities for faculty with extramural funding for research and/or creative activity.

•Increase the percentage of faculty significantly involved in publications, applied projects and professional service, and the number of graduate students supported by extramural funding.

## Professional Preparation

•Continue to prepare students with realistic airline-type training and education to easily transition into flight positions.

•Continue to develop the air transportation management concentration by revising the curricula based upon input from industry leaders and, in particular, the Aviation Program Industry Advisory Board.

•Provide students with additional employment opportunities by providing airline dispatcher courses.

•Continue to develop the Air Traffic Management Program by revising the curricula to incorporate changes in the technology, equipment, and procedures used by air traffic controllers and the aviation industry.

•Increase the number of undergraduate and graduate students holding internships during the year. Identify funding sources to increase learning opportunities by integrating leading-edge technology into current academic class activities.

•Continue to develop and improve the academic and operational efficiency of the altitude chamber, and integrating a high-altitude chamber experience into the professional flight and the air transportation management curricula.

## Scholarship

•Maintain and improve the intellectual and cultural environment on campus, as well as to identify opportunities for faculty scholarship.

•Increase external funds generated for instruction, research and creative activities, and professional service.

•Increase opportunities for collaborative research with industry and government agencies, and identify areas of possible application for developing technologies to solve current industry problems, such as airport/aircraft noise, hazardous materials, pollution, airport/aircraft security, and air transportation education and training.

•Continue to develop specific research agendas for the high altitude physiology program, pilot screening and selection, and other areas particularly pertaining to applied research and teaching.

## Program Assessment Measures

The Aviation Program requires that all courses be evaluated at the conclusion of the academic year with enhancements implemented prior to the fall semester. Courses may also be modified between fall and spring semesters as necessary.

The Arizona State University Academic Program Assessment Report is completed on a yearly basis to also assess learning objectives and program outcomes. This assessment includes a specified measure, performance criterion, results, observations, and program self-assessment.

Modifications and enhancements to courses and the academic programs are based on input from industry employers, the Aviation Industry Advisory Board (AIAB), evaluation of student achievement by faculty as well as annual assessments conducted by the ASU Office of Evaluation and Educational Effectiveness (UOEEE). Additionally, some changes may also be implemented to conform with Aviation Accreditation Board, International (AABI) accreditation criteria.

# Graduation Rate and Types of Employment

| Fall 2021 Aviation Cohorts Retention to Fall 2022 | | | | |
|---|---|---|---|---|
| Plan | Initial Cohort Size | Returned ASU Percent | Returned Engr Percent | Returned Aviation Percent |
| Aero Mgmt Tech (Air Traffic Mgmt) - ESAMTATBS | 7 | 71% | 71% | 57% |

| Air Traffic Management Degrees Granted in AY 2021 - 2022 | | | | |
|---|---|---|---|---|
| Plan | Summer 2021 | Fall 2021 | Spring 2022 | Total AY21-2 |
| Aero Mgmt Tech (Air Traffic Mgmt) - ESAMTATBS | 1 | 7 | 5 | 13 |

| 4, 5, and 6-year Graduation Rates | | | | | |
|---|---|---|---|---|---|
| Plan | Start Term | Total | 4-Yr Grad Rate in Aviation | 5-Yr Grad Rate in Aviation | 6-Yr Grad Rate in Aviation |
| Aero Mgmt Tech (Air Traffic Mgmt) - ESAMTATBS | Fall 2016 | 13 | 54% | 54% | |
| Aero Mgmt Tech (Air Traffic Mgmt) - ESAMTATBS | Fall 2017 | 16 | 63% | | |

| Bachelor- Aeronautical Management Technology (Air Traffic Management) | | | | |
|---|---|---|---|---|
| Total Respondents | Still Looking | Employed, Military, Continuing Education and Otherwise Engaged | | FSE Employment Rate |
| 10 | 4 | 6 | | 60% |
| | | FAA | Air Traffic Controller (x3) | |
| | | Swift Aviation | Customer Service | |
| | | Will County Regional Office of Education | Substitute Teacher | |
| | | Buffalo Wild Wings | Waiter | |