

Bachelor of Science Aviation Management Option

PROGRAM OBJECTIVES (EDUCATIONAL GOALS)

The various advisory boards—Faculty/Instructor Advisory Board, External Aviation Advisory Board, Aviation Student Advisory Board—all play an important role in providing input for the educational goals of all aviation programs. These goals are established by the School and are reviewed at least annually by these groups during the Provost's Assessment of Student Learning Outcomes.

AM1. Instill a solid foundation of management, organizational behavior, and continuing adaptation in a changing global business environment

AM2. Prepare graduates who will support and nurture business management and lifelong learning in the aviation industry

AM2a. Promote the practice of reading for life

AM3. Provide graduates with the knowledge and skills necessary to implement management principles within the aviation environment

AM3a. Establish competency-based certificate programs to help students achieve their career goals

AM4. Review the past, evaluate the future, study local to global considerations of aviation issues

AM5. Create competent, skillful pilots and leaders who can solve complex problems in the aviation community

AM6. Cultivate single pilot/crew resource management, organizational risk management, and safety awareness in aviation operations

AM7. Foster ethical and responsible behavior within the government, industry and society

PROGRAM ASSESSMENT MEASURES EMPLOYED

Measurements

Students will demonstrate knowledge of skills and procedures and management styles for managing airports, airlines, governmental and general Aviation organizations through test scores and written essays. We are exploring the option of online Aviation management software for students. Key areas include community relations from the perspective of economic viability, economic growth and zoning concerns as well as community airspace and air corridor harmony.

Measurements

Additionally, students will possess knowledge of applicable airport operations, Federal Aviation Regulations (FARs), Transportation Security Regulations (TSARs), financial management systems relating to airports and typical local, state and federal funding and subsequent unique airport budgetary requirements of uncontrolled and controlled (from ATC tower perspective) airports along with the importance of short term and out year strategic planning for airport and flight operations success and excellence.

Measurements

Students will be able to demonstrate knowledge of the single engine VFR environment to the private pilot ground school written test standards. Additionally, students will possess knowledge of applicable airport operations; ground, tower, obstacle TERPS criteria, environmental, noise abatement, Federal Aviation Regulations (FARs), Transportation Security Regulations (TSARs) to include applicable FAA, TSA and NTSB Advisory Circulars and information. Measurement of outcomes is obtained through written exams, oral presentations, and written reports.

Measurements

The Senior Capstone is the culminating course in the Aviation core curriculum for all Aviation Department degree programs. The course outcomes which are measured via written and oral products include: 1) Reinforces, integrates, extends, and applies the knowledge and skills covered in the University of Oklahoma Aviation, Business and General Education curriculums 2) Develops the additional project management and problem-solving skills needed to complete a project for an Aviation client, and 3) Delivers a useful solution to the Aviation client. Every phase of the course is designed to enable the students to demonstrate a high level of professional performance, appearance, demeanor and courtesy in an actual working Aviation environment. Students receive feedback on their work from the course faculty, faculty appointed team manager, client and also receives peer assessment of written deliverables, oral presentation and ability to function successfully on multi-disciplinary and diverse teams. The course curriculum is able to assess numerous other general and Aviation outcomes.

Student Learning Outcomes (SLOs Paired with Individual Courses)

A. Apply mathematics, science, and applied sciences to aviation-related disciplines

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622, 4713 Ability to perform simple math problems; Ability to understand the nature of gases; Ability to understand meteorological conditions; **Standard of Excellence Score >85%**

B. Analyze and interpret data

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622, 4713 Ability to read and understand performance data; Ability to apply formulae to varying conditions; 4423 Ability to interpret complex situations and identify right behavior

C. Work effectively on multi-disciplinary and diverse teams

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622, 4713 Ability to lead a group of diverse individuals, **Standard of Excellence Score >85%**

D. Make professional and ethical decisions

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622 Ability to make professional, aeronautical decisions; 2513 Ability to discern right and wrong behavior from historical reference; 2613 Ability to identify unsafe behavior; 3333 Ability to apply law principles to real life situations; 4423 Ability to communicate effectively; Ability to discern between safe and unsafe behavior; Ability to spot the effect of human consequence in flight operations; 4713 Ability to identify problems, create a method to solve the problem, and then collect data toward finding a solution

E. Communicate effectively, using both written and oral communication skills

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622, 4713 Ability to communicate effectively, by use of common radio phraseology; Ability to explain aerial maneuvers; 4423 Understand the benefits of effective communication among pilots and air traffic controllers; 3333 Ability to use the case brief format to explain complex law cases; **Standard of Excellence Score >85%**

F. Engage in and recognize the need for life-long learning, **Reading for Life**

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622, 4713 Ability to see the benefit of building experience as a pilot; 2513 Ability to use historical examples to support right thinking in the cockpit; 4423 Ability to understand the benefit of sustained, right behavior; 4713 Ability to understand how Capstone opportunities build a person's confidence in solving operational problems

G. Assess contemporary issues

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622, 4713 Ability to understand how past experiences can help prevent wrong actions; 4423 Ability to interpret from NTSB narrative what the key issues were in any aircraft accident report; Ability to understand the benefit of reading Aviation Safety Reporting Systems data sets

H. Use the techniques, skills and modern technology necessary for professional practice

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622 Ability to use electronic devices while controlling aircraft; **Standard of Excellence Score >85%**

I. Assess the national and international aviation environment

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622 Ability to understand how the national airspace system works and how to operate within it; 4423 Ability to understand how that cultural differences might affect flight safety

J. Apply pertinent knowledge in identifying and solving problems

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622, 4713 Ability to solve systems problems and derive a safe course of action when confronted with aircraft malfunctions; Ability to decide when an alternate is necessary and when it is best to proceed to that alternate; Ability to know when an approach is unstable and then to recover; 4423 Ability to come to the right conclusions; 4713 Ability to identify problems, find solutions, and present the information with confidence; **Standard of Excellence Score >85%**

K. Apply knowledge of business sustainability to aviation issues

1111, 1113, 1222, 2231, 2341, 3111, 3113, 3133, 3572, 3581, 4313, 4552, 4622, 4713 Ability to operate in an IFR environment, while saving fuel and time; 4983 Ability to develop a business plan and use that plan to conduct flight operations

Aviation Core Outcomes

- 1 Attributes of an aviation professional, career planning and certification
- 2 Aircraft design, performance, operating characteristics, and maintenance
- 3 Aviation safety & Human factors
- 4 National & International aviation law, regulations and labor issues
- 5 Airports, airspace and ATC
- 6 Meteorology & environmental issues

GRADUATION RATES

COHORT	4 YEARS/% GRADUATING	6 YEARS/% GRADUATING
2009	2013 (100%)	2015 (100%)
2010	2014 (20%)	2016 (20%)
2011	2015 (25%)	2017 (50%)
2012	2016 (50%)	2018 (66.7%)

RATES AND TYPES OF EMPLOYMENT OF GRADUATES (2013-2018)

Flight Instructor 7
 Military Pilot 5
 Military 3
 Airline Pilot 2
 Corporate Aviation Pilot 7
 Corporate Aviation 4
 Airport Management 1
 Other Aviation Employment 3
 Non-Aviation Field 6
 Graduate School/Additional Undergraduate 1
 Aviation Maintenance 0
 No Information 3

Average annual salary for graduates	\$35,705.67
Average hourly salary	\$14.62