

Bachelor of Science Professional Pilot 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.

PP1. Instill a foundation for lifelong learning; graduates are immersed in issues in the domestic and international aviation community

PP1a. Promote the practice of reading for life

PP2. Create competent, skillful pilots and leaders who can solve complex problems within aviation

PP3. Cultivate single pilot/crew resource management, operational risk management, and safety awareness in aviation operations

PP4. Instill professional, ethical responsibility, and business sustainability in global environments

PROGRAM ASSESSMENT MEASURES EMPLOYED

Measurements

- Results of commercial pilot practical test certifications.
- Graduation Exit Surveys.
- Employer Survey and Alumni surveys via University Career Development Alumni Survey.
- Internship Surveys.
- Students will demonstrate knowledge in single engine VFR and IFR flight operations to the commercial pilot standard.

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 (10%)	2015 (20%)
2010	2014 (15%)	2016 (15%)
2011	2015 (24%)	2017 (30%)
2012	2016 (50%)	2018 (83.3%)

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

Flight Instructor 8
Corporate Pilot 2

Airline Pilot 25
Military Pilot 8
Airport Management 0
Other Aviation Employment 3
Non-Aviation Field 0
Graduate School/Additional Undergraduate 1
No Information 10

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