

Aviation Accreditation Board International

AABI Policy 3.4.2

The Aviation Accreditation Board International (AABI) requires accredited institutions to publish a report of student achievement data annually (as per AABI policy 3.4.2). Policy 3.4.2 states; *for each AABI-accredited aviation program, institutions MUST accurately publish on the program's public website, a report of student achievement data including the following information, updated annually:*

- The objectives of each accredited program
- Program assessment measures employed
- Graduation rates
- Rates and types of employment of graduates

Below is the report for compliance of AABI Policy 3.4.2 for the Aviation and Space Program at Oklahoma State University.

Program Objectives:

The Aviation and Space Program at Oklahoma State University (OSU) has two undergraduate degree options accredited by the Aviation Accreditation Board International (AABI). These two undergraduate degree options are;

- B.S. in Aerospace Administration and Operations: *Aviation Management*
- B.S. in Aerospace Administration and Operations: *Professional Pilot*

Each of these undergraduate degree options has its own established Educational Goals. These Educational Goals define the program objectives for each accredited degree option.

Educational Goals for Aviation Management

- Provide majors with the analytical processes to apply relevant theory and practical application to creative problem solving within the aviation and aerospace fields.
- Graduates will be knowledgeable of recent industry trends and can assess new advances in aviation management.
- Majors will have the ability to create a variety of oral presentations, meeting various presentation requirements, using appropriate designs and graphical media to cause a change in the listener.
- Majors will have the ability to create a variety of written documents, meeting various writing requirements, using appropriate standards and literary devices to produce the most meaningful result.

Educational Goals for Professional Pilot

- Provide majors with the technical skill sets of a qualified, competent, safe pilot integrated with a solid aviation focused liberal arts education that will allow the graduate to compete successfully within the aviation market place.
- Majors will have the ability to create a variety of oral presentations, meeting various presentation requirements, using appropriate designs and graphical media to cause a change in the listener.
- Majors will have the ability to create a variety of written documents, meeting various writing requirements, using appropriate standards and literary devices to produce the most meaningful result.
- Provide undergraduate Professional Pilot majors with skills to be able to pass the written Certified Flight Instructor (CFI) Federal Aviation Administration (FAA) examination or the AVED 4133 final course examination.

Program Assessment Measures:

The OSU Aviation and Space Program implements numerous measures to assess the delivery of learning outcomes, quality of instruction and meaningfulness of program curriculum. Detailed below are the measures the Aviation and Space Program implement on a regular basis.

- Assessment of *Learning Outcomes* (General, Core and Program) are completed from our regular cycle of course offerings to ensure each individual learning outcome is assessed at least two times each five years.
- *End of Course* self-assessments are completed after the conclusion of each course. This results in an End of Course completed for each course at least once every academic year.
- The *Aviation Management Advisory Council* and *Professional Pilot Advisory Board* offer guidance and advice for academic and student centric issues for the Aviation and Space Program.

Learning Outcome Assessments

3.3.1 General Learning Outcomes (Defined by AABI)

Aviation programs MUST demonstrate that graduates are able to:

- a. apply mathematics, science, and applied sciences to aviation-related disciplines;
- b. analyze and interpret data;
- c. work effectively on multi-disciplinary and diverse teams;
- d. make professional and ethical decisions;
- e. communicate effectively, using both written and oral communication skills;
- f. engage in and recognize the need for life-long learning;
- g. assess contemporary issues;
- h. use the techniques, skills, and modern technology necessary for professional practice;

- i. assess the national and international aviation environment;
- j. apply pertinent knowledge in identifying and solving problems;
- k. apply knowledge of business sustainability to aviation issues.

3.3.2 Aviation Core Learning Outcomes (Defined by AABI)

Aviation programs MUST develop outcomes appropriate to the following aviation core learning topics:

1. Describe the professional attributes, requirements or certifications, and planning applicable to aviation careers.
2. Describe the principles of aircraft design, performance and operating characteristics; and the regulations related to the maintenance of aircraft and associated systems.
3. Evaluate aviation safety and the impact of human factors on safety.
4. Discuss the impact of international aviation law, including applicable International Civil Aviation Organization (ICAO) or other international standards and practices, and applicable national aviation law, regulations and labor issues on aviation operations.
5. Explain the integration of airports, airspace, and air traffic control in managing the National Airspace System.
6. Discuss the impact of meteorology and environmental issues on aviation operations.

3.3.3 Program Criteria Learning Outcomes (Defined by OSU Aviation and Space Program)

Student Learning Outcomes for Aviation Management

- AM1. Graduates will demonstrate analytical management processes to apply relevant theory and practical application to creative problem solving within the aviation field.
- AM2. Graduates are knowledgeable of recent industry trends and can assess new advances in aviation management.
- AM3. Graduates will demonstrate effective oral communication skills.
- AM4. Graduates will demonstrate effective written communication skills.

Student Learning Outcomes for Professional Pilot

- PP1. Graduates will demonstrate technical skill sets of a qualified, competent, safe pilot integrated with a solid aviation focused liberal arts education that will allow the graduate to compete successfully within the aviation market place.
- PP2. Graduates will demonstrate effective oral communication skills.
- PP3. Graduates will demonstrate effective written communication skills.
- PP4. Undergraduate Professional Pilot majors will be able to pass the written Certified Flight Instructor (CFI) Federal Aviation Administration (FAA) examination.

End of Course Assessments

Upon the completion of each Aviation and Space undergraduate academic course, instructors complete an End of Course (EoC) self-evaluation. The purpose of the EoC is for instructors to reflect on the course regarding student learning outcomes. The Aviation and Space Program and instructors, continually use the EoC process to improve instructional and circular methods. Instructors address the following questions in each EoC assessment:

- From a Student Learning Outcome perspective, what components of the course were the most successful?
- From the Student Learning Outcome perspective, what areas do students seem to need further instruction or clarification?
- List any notes and Reminders for the next time this course is taught.

Aviation Management Advisory Council

The Aviation and Space Program has established an Aviation Management Advisory Council to provide aerospace/aviation industry consultation to our undergraduate Aviation Management degree option. The members of this Advisory Council provide feedback based on their industry experiences in the following areas of academic/student review:

- *Industry Evaluation of our Aviation Management Curriculum* – This would include a review of the Aviation Management academic degree sheet, required courses and associated course learning objectives.
- *Advisement in Revising and/or Creating Aviation Management Coursework* – As the aerospace/aviation industry continually evolves; revising existing curriculum and/or creating new curriculum is necessary to ensure the Aviation Management undergraduate student has required the academic skill set, upon graduation, to successfully compete for employment in the aerospace/aviation industry.
- *Employment Deficiencies of Aviation Management Hires* – To successfully prepare the Aviation Management student for professional placement in the aerospace/aviation industry, it is extremely helpful to receive continual feedback from industry professionals regarding specific knowledge deficiencies of college graduates from collegiate aviation institutions.

Professional Pilot Advisory Board

The Aviation and Space Program has established a Professional Pilot Advisory Board to provide aerospace/aviation industry consultation to our undergraduate Professional Pilot degree option. The members of this Advisory Board provide feedback based on their industry experiences in the following areas of academic/student review:

- *Industry Evaluation of our Professional Pilot Curriculum* – This would include a review of the Professional Pilot academic degree sheet, required courses, associated course learning objectives, assessments of our current aircraft/simulator balance, the cockpit configuration of our fleet, and the aircraft fleet composure.
- *Advisement in Revising and/or Creating Professional Pilot Coursework* – As the aerospace/aviation industry continually evolves; revising existing curriculum and/or creating new curriculum is necessary to ensure the Professional Pilot undergraduate student has the required the academic and flight skill set, upon graduation, to successfully compete for employment in the aerospace/aviation industry, with special attention to the air carrier industry, corporate aviation, or the U.S. military.
- *Employment Deficiencies of Professional Pilot Hires* – To successfully prepare the Professional Pilot student for employment in air carrier, or related flight industries, it is extremely helpful to receive continual feedback from industry professionals regarding current hiring trends, airline/industry preferences, and specific knowledge deficiencies of college graduates from collegiate aviation institutions.

Graduation Rates:

Oklahoma State University tracks institutional graduation rates as “6-Year Graduation Rates”. This process tracks an incoming freshman class for six years. The reported 6-Year Graduation Rate percentage is the number of students graduated compared to the number of incoming students from six years prior in the same academic degree option. Therefore, the “2016 Class” below was an incoming freshman class in 2010.

<i>Graduating Year</i>	<i>Academic Option</i>	<i>6 Year Graduation Rate</i>	<i>OSU Institutional 6 Year Graduation Rate for Reporting Year</i>
2016 Class	Aviation Management	50.0%	62.9%
2016 Class	Professional Pilot	59.1%	62.9%
2017 Class	Aviation Management	83.3%	62.9%
2017 Class	Professional Pilot	56.3%	62.9%
2018 Class	Aviation Management	66.7%	61.3%
2018 Class	Professional Pilot	75.0%	61.3%

Graduate Employment:

Oklahoma State University's Career Services department has developed a graduate employment survey that adheres to protocols stipulated by the National Association of Colleges and Employers. This survey is electronically delivered to all OSU graduates at least two times, and usually three times, to seek employment information and other related data. All responses to this survey are voluntary. Due to FERPA and institutional policies, only aggregate data may be released. Based on this collected data, below are results of the combined employment rates of 2016 – 2018 reported individually for the Aviation Management and Professional Pilot academic degree options.

Employment Rates

Academic Option/Dates	Graduates	Response Rate	Employed
Aviation Management 2016-17 & 2017-18	24	29%	100%
Professional Pilot 2016-17 & 2017-18	33	27%	100%

Employment Sources

The following employment sources or continuing education status has been identified from formal employment surveys and/or from informal communication between graduates and Aviation and Space Program Faculty and Staff. Graduates from the 2016-2017 and 2017-2018 academic years are employed at the following companies or organizations listed below. This list should not be considered complete or limited to the only employers of these graduates.

United States Navy	American Airlines	Certified Flight Instructor
Air National Guard	SkyWest Airlines	Envoy Air
United Airlines	Stillwater Regional Airport	Saudi Arabian Airlines
Ameriflight	Oklahoma State University	Graduate School
Omni Air International		