

# AABIInternational

<b>LIBERTY</b> UNIVERSITY SCHOOL of AERONAUTICS	<b>LIBERTY UNIVERSITY</b>
	<b>SCHOOL OF AERONAUTICS</b>
	<b>B.S. AERONAUTICS, MILITARY COGNATE</b>
<b>November 30, 2021</b>	<b>STUDENT ACHIEVEMENT DATA</b>

## **Liberty University School of Aeronautics Pillars:**

- Ensuring a world-class aeronautics experience
- Practicing stewardship to provide exceptional values to our students
- Training champions for Christ to change the world

**Our Vision:** Advance the Great Commission by developing and training aerospace professionals through a distinctive Christian education.

**Our Mission:** Equip, Mentor, and Send Champions for Christ into the Aerospace Community

## **1. Specific educational goals: LUSOA Military**

- **Create graduates with technical competence:** Through a combination of both classroom and flight training, Military majors will acquire the following certificates and ratings during their degree program: FAA Airplane Pilot ratings for Private and Instrument.
  - All graduates of the Military program are required to complete FAA Private and Instrument. One way we measure our technical competence goal (completion of required FAA certificates) is through graduation. See our results in section 3 below.
- **Prepare men and women of character:** The purpose of the Military degree program is to prepare men and women to become exceptional aviators who possess outstanding knowledge, excellent technical skills, sound judgment, professionalism, leadership, and strong Christian character. These qualities will prepare students to serve in the U.S. military.
  - In order to be eligible for graduation, all Liberty University students are required to complete an average of 20 hours of supervised service each semester. One way we measure our character goal is by tracking Christian Service during each Fall semester. See our results in section 3 below.

## **2. Program Assessment Measures: Military**

In addition to the above specific measures, we assess program effectiveness in three general ways:

- Institutional Effectiveness (Documented processes with evidence archives)
- Strategic Planning (Culture of continuous evaluation, review, and improvement)
- Course Assessment Review Process (Stems from program learning outcomes)

### **LUSOA Military: Learning Outcomes**

- Apply Biblical principles within the professional aviation environment.
- Apply science, technology, and mathematics to aeronautics disciplines.
- Promote a healthy organization of safety culture in aviation
- Assimilate the healthy lifestyle required to meet the unique physical and cognitive demands of an aviation career.
- Apply written and oral communication skills as they pertain to the aviation industry.
- Mentor others in leadership skills and qualities as it relates to aviation.

#### **Military cognate:**

- Apply policies, regulations, and procedures to flight operations.

Liberty University Institutional Effectiveness information: <https://www.liberty.edu/institutional-effectiveness/smart-numbers/fall-2020-smart-numbers/>

SOA conducts program assessment activities in a culture of continuous improvement:

- Comprehensive Assessment Plan on file with the Liberty University Office of Institutional Effectiveness (working document updated periodically)
- Assessment of each course by Residential faculty. Documented in Course Assessment Reports (CAR) filed in Dropbox
- Liberty University's Office of Institutional Effectiveness leads a comprehensive assessment process documented in Chalk and Wire and managed by the designated SOA IE representative.
- SOA's Dean conducts semi-annual strategic planning sessions and monthly goal meetings.
- SOA's Dean hosts bi-weekly Chair and Deans' council meetings.
- SOA's Associate Dean hosts weekly meetings with faculty and leadership to discuss curriculum, teaching, goals, assessment, and other priorities.
- Semi-Annual Industry Advisory Board meetings
- Semi-Annual SOA administrators' review of student end-of-course surveys
- Annual Associate Dean Goals Report - Completed at end of academic year

### **Additional Program Assessment Measures**

Procedures used to assure students meet all program requirements include:

- Incoming students take Math and English placement tests
- Required FAA medical certificates for all flight course students
- Students complete courses in applicable DCP; monitored by advisors; tracked by ASIST (Automated Student Information Services Tool) tool

- Students must pass 100-200 level courses with a D grade or higher
- Students must pass 300-400 level courses with a C grade or higher

### **Annual Assessment Day**

Likert scale surveys, built from questions used in the focus groups, were sent to first-year SOA students, and SOA Junior and Senior classification students.

For each group, fifteen students were randomly selected and invited to attend the focus group discussion session.

- **First Year Students' Focus Group** (*Focus group forum limited to one hour.*)
  - Focus group comprised of 10 to 20 first year students sampled from any student who has taken AVIA 102 in the 2020 Fall or 2021 Spring semester.
- **Upper Classmen Focus Group** (*Focus group forum limited to one hour.*)
  - Focus group comprised of 10 to 20 upper classmen sampled from AVIA 460 or AVIA 491.

### **3. Graduation (Military)**

Integrated Post-Secondary Education Data System (IPEDS) is a system of interrelated surveys conducted annually by the U.S. Department's National Center for Education Statistics (NCES). IPEDS gathers information from every college, university, and technical and vocational institution that participates in the federal student financial aid programs. Liberty University's overall graduation rates can be found at the NCES webpage. The graduation rates are based on 150% of the time to complete a four-year degree (six years).

We extracted the information for Military Program graduates by year:

<b>Year</b>	<b>Fall 2015</b>	<b>Fall 2014</b>	<b>Fall 2013</b>	<b>Fall 2012</b>	<b>Fall 2011</b>	<b>Fall 2010</b>	<b>Fall 2009</b>
Military	75%	67%	56%	56%	91%	40%	33%
All School of Aeronautics	66%	53%	69%	63%	54%	52%	60%

During Fall 2021, the School of Aeronautics adopted a goal to measure completion of Christian Service (CSER) during each fall semester. Analysis of student participation in CSER among students in the Military Program is as follows:

Note: Overall measures include all *residential* Aeronautics students.

<b>Year</b>	<b>Aeronautics Majors</b>	<b>CSER Completed</b>	<b>Rate</b>	<b>Military</b>	<b>CSER Completed</b>	<b>Rate</b>
Fall 2021	615	pending	-	37	pending	-
Fall 2020	523	218	42%	48	13	27%

Fall 2019	464	297	64%	45	24	53%
Fall 2018	415	252	61%	38	16	42%

#### **4. Rates and Types of Employment of Graduates (2016-2020)**

##### **Annual Alumni Survey**

Liberty University's annual Alumni Survey is conducted each Fall semester. Alumni from the most recent academic year as well as 5, 10, and 20-year cohorts are invited to participate. Survey content is developed to align with reporting needs for both regional and programmatic accreditors, as well as national surveys. The survey contains both a core and department-specific section of questions. The survey core includes questions regarding gainful employment, skill preparation, and overall satisfaction with the school. Academic departments include items for their graduates in the department-specific sections. Feedback is used to inform improvement efforts and for accreditation reporting needs.

	Survey Year (cohort)				
<b>Military</b>	2016 (16*)	2017 (16/17)	2018 (17/18)	2019 (18/19)	2020 (19/20)
Survey Respondent (n)	3	1	1	0	0
Employed/Placed (n)	3	1	1	0	0
Job Directly or Somewhat Relevant (n)	3	0	0	0	0

*\*In 2017 we began sending the alumni survey to the academic year cohorts, thus 2016 has only those who graduated in Spring 2016 and not Fall 2015. Employed/placed includes alumni who reported the following: full-time or part-time employment, military, self-employed, or placement in mission or volunteer services. It excludes the following: retired, continuing education, other, no answer, and caring for home/family.*

##### **Employers and Job Titles:**

Note: Some survey respondents did not report their job titles.

- Harley Davidson (2018)
  - Business Manager
- Pet Commander Kennels (2017)
- United States Airforce (2016)
  - 2nd LT Student Pilot
  - Aircraft Maintenance Officer

##### **Types of Employment:**

- Aviation Management
- Flight
- Military Officer
- Air Traffic Control
- Safety
- Material or Equipment Supplier