

AABI International

LIBERTY UNIVERSITY SCHOOL of AERONAUTICS	LIBERTY UNIVERSITY
	SCHOOL OF AERONAUTICS
	B.S. UNMANNED AIRCRAFT OPERATIONS
April 29, 2021	STUDENT ACHIEVEMENT DATA

Liberty University School of Aeronautics Pillars:

- Ensuring a world-class aeronautics experience
- Practicing stewardship to provide exceptional value to our student
- 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 Unmanned Aircraft Operations (UAS)

- **Create graduates with technical competence:** Through a combination of both classroom and flight training, UAS majors will acquire the following certificates and ratings during their degree program: FAA Airplane Pilot ratings for Private and Instrument; FAR Part 107 certification; medium UAS certification.
- **Prepare men and women of character:** The purpose of the UAS degree program is to prepare students to impact the UAS industry with world class knowledge, skills, and abilities. These aviation professionals will possess sound judgment and strong Christian character.

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

LUSOA Unmanned Aircraft Operations: Learning Outcomes

- Apply biblical principles within the unmanned aircraft industry.
- Apply science, technology, and mathematics to unmanned aircraft disciplines.
- Promote a healthy organization safety culture in the UAS industry.
- Apply policies, regulations, and procedures to UAS flight operations.

DEGREE TITLE	PROGRAM LEARNING OUTCOME (PLO)	CLUSTER 1 ASSESSMENT TERM FALL 2020	CLUSTER 2 ASSESSMENT TERM FALL 2021	CLUSTER 3 ASSESSMENT TERM FALL 2022
BS - Unmanned Aircraft Operations	The student will be able to:			
Degree First Offered Fall 2021	Apply biblical principles within the unmanned aircraft industry.			X
This degree will begin assessment in Academic Year 23-24	Apply science, technology, and mathematics to unmanned aircraft disciplines.		X	
	Promote a healthy organizational safety culture in the UAS industry.	X		
	Apply policies, regulations, and procedures to UAS flight operations.			X

2. Program Assessment Measures: LUSOA Unmanned Aircraft Operations

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
- SOA's Dean hosts bi-weekly Chair and Dean's council 1030 Monday meetings
- SOA's Associate Dean hosts weekly 1030 Friday 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

In 2014, the SOA developed program learning outcomes (PLOs) of the top-level educational goals of each program offered by the school. These outcomes describe what students should be able to do upon completion of their applicable degree program. The list of PLOs is revised through collaboration among the LUSOA Faculty, the Dean, and the university's Office of Institutional Effectiveness. The LUSOA Assessment Plan specifies a three-year cycle in which each PLO will be assessed.

Additional Program Assessment Measures

Procedures used to assure students meet all program requirements include:

- Incoming students take Math and English placement tests
- FAA medical certificate required 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 sent to first year SOA students and SOA Jr Sr classifications students built from questions used in the focus groups.

For each group, fifteen students are 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 (Unmanned Aircraft Operations)

First Year Students entering program at beginning of academic year; Graduates in Spring

Year	15/16	16/17	17/18	18/19	19/20
First Year Students	12	2	9	8	12
Graduates	14	16	7	16	13

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, and national surveys. The survey contains both a core and department-specific sections 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.

Unmanned Aviation Operations (UAS)	Survey Year (cohort)				
	2016 (16*)	2017 (16/17)	2018 (17/18)	2019 (18/19)	2020 (19/20)
Survey Respondent (n)	5	7	3	5	1
Employed/Placed (n)	5	7	3	4	1
Job Directly or Somewhat Relevant (n)	2	2	2	4	1

**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:

- Department of Homeland Security, Transportation Security Agency (2016)
 - Transportation Security Officer
- HAZON Solutions (2016)
 - Remote Pilot in Command
- Textron Systems (2016)
 - UAS Operator
- Occupations provided with no employer listed
 - Server (2016)
- AquaPhoenix (2017)
 - Industrial Production Associate
- Broadridge Corporate Issuer Solutions (2017)
 - Consultant
- UAV (2017)
 - Drone Pilot
- Go Unmanned (2018)
 - Part 107 Instructor/ Sales Support
- Horizon Flight Center (2019)
 - Certified Flight Instructor

Types of Employment:

- Aviation Management • Safety
- Flight • Material or Equipment Supplier
- Aviation Electronics