

AABI International

LIBERTY UNIVERSITY SCHOOL of AERONAUTICS	LIBERTY UNIVERSITY
	SCHOOL OF AERONAUTICS
September 19, 2024	B.S. AVIATION MAINTENANCE
Compliance with AABI Policy 3.2.4	STUDENT ACHIEVEMENT DATA

Liberty University School of Aeronautics Pillars:

- Spiritual Development
- Student Success
- Student Experience

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: Aviation Maintenance

- **Create graduates with technical competence:** LUSOA operates a 14 CFR Part 147 Aircraft Maintenance school for FAA Airframe and Powerplant certification. The curriculum expands on the School of Aeronautics AMTS (A&P) training for FAA aviation mechanic licensure. It builds on, and strengthens, fundamental skills and principles taught during the AMTS training and delves into broader topics facing an FAA licensed mechanic such as Human Factors and Safety. The FAA certification portion of this program (all AVMT courses) is designed to be completed in 12-consecutive months. The program is specifically suited to prepare students for the mission aviation field as maintainers and as pilot-maintainers. Program elements include turbojet training. Students in UAS maintenance have the option of participating in Textron Systems partnership training to receive industry certification as an Aerosonde maintenance crew chief.
 - All graduates of the Aviation Maintenance program are required to complete the required course curriculum to graduate. Graduation of our program is one way we measure our technical competence goal. See our results in section 3 below.
- **Prepare men and women of character:** The purpose of the Aviation Maintenance degree program is to prepare students for management and leadership roles

in the aviation maintenance field with outstanding knowledge, excellent technical skills, sound judgment, and strong Christian character.

- 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.

2. Program Assessment Measures: Aviation Maintenance

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

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

Aviation Maintenance: Learning Outcomes

- Apply Biblical principles within the aviation maintenance environment.
- Apply science, technology, and mathematics in the area of aviation maintenance.
- Promote a healthy organizational safety culture in the aviation maintenance industry.
- Solve aviation maintenance issues and problems individually, and within a team environment.
- Apply written and oral communication skills as they pertain to aviation maintenance.
- Mentor others in leadership skills and qualities.

Liberty University and Research information

<https://www.liberty.edu/institutional-effectiveness/student-achievement/fall-2023-student-achievement/>

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

- Comprehensive Assessment Plan on file with the Liberty University Office of Institutional Effectiveness and Research (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 and Research leads a comprehensive assessment process documented in Chalk and Wire and managed by the designated SOA IER representative
- SOA's Dean conducts quarterly goals meetings

- SOA’s Associate Dean hosts bi-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

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 composed of 10 to 20 first year students sampled from any student who has taken AVIA 102 in the 2021 Fall or 2022 Spring semester.
- **Upper Classmen Focus Group** (*Focus group forum limited to one hour.*)
 - Focus group composed of 10 to 20 upper classmen sampled from AVIA 460, AVIA 461 or AVIA 491.

3. Graduation (Aviation Maintenance)

Similar to how the Integrated Post-Secondary Education Data System (IPEDS) uses a 150% of the normal time graduation rate, Liberty University chose to use this time period to measure cohort graduation rates. Unlike the standard IPEDS graduation rate, Liberty University includes transfer students along with first-time students in the cohorts. The graduation rates reported below are based on 150% of the time to complete a four-year degree (six years) and includes transfer students along with first-time students. The years on the chart are the beginning cohort years. For instance, the Fall 2018 cohort is reporting their six-year graduation rate in 20234

Graduation Rates, Fall 2017 cohort

	Fall 2018 First time Students	Graduated in 6 years	6-year Graduation Rate
B.S. Aviation Maintenance UAS	3	2	66.67%

B.S. Aviation Maintenance Management	6	2	33.33%
--------------------------------------	---	---	--------

Degrees Awarded

	AY 2021-2022	AY 2022-2023	AY 2023-2024
B.S. Aviation Maintenance UAS	1	0	4
B.S. Aviation Maintenance Management	7	8	12

Retention Rate, All Residential Students

	Cohort	Graduates	Retained	Retention Rate
B.S. Aviation Maintenance UAS	12	4	6	75%
B.S. Aviation Maintenance Management	48	11	28	76%

Retention Rate, First-time Freshman and Transfers

	Cohort	Graduates	Retained	Retention Rate
B.S. Aviation Maintenance UAS	2	0	2	100%
B.S. Aviation Maintenance Management	11	0	8	73%

Fall Headcount Enrollment

	Fall 2023
B.S. Aviation Maintenance UAS	6
B.S. Aviation Maintenance Management	54

4. Rates and Types of Employment of Graduates (2018-2023)

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.

Aviation Maintenance	Survey Year (cohort)				
	2019 (18/19)	2020 (19/20)	2021 (20/21)	2022 (21/22)	2023 (22/23)
Survey Respondent (n)	1	0	2	0	2
Employed/Placed (n)	1	0	2	0	2
Job Directly or Somewhat Relevant (n)	1	0	2	0	2

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:

- Aerowood Service Center (2023)
 - Airframe and powerplant technician
- Air Wisconsin Airlines (2021)
 - Mechanic
 - Quality Control
- Dennis Khanduja (2021)
 - Quality Control
- Liberty University (2023)
 - Instructional Lab Technician

Types of Employment:

Aviation Maintenance	Material or Equipment Supplier
Aviation Electronics	Aviation Maintenance Management
Aircraft Mechanic	Quality Control