

UNMANNED AIRCRAFT OPERATIONS (B.S.) - RESIDENT

Important: This degree plan is effective for those starting this degree program in fall 2024 through summer 2025. This degree plan will remain in effect for students who do not break enrollment or who do not change degree programs, concentrations, or cognates.

General Education/Foundational Skills Requirements

Code	Title	Hours
Communication & Information Literacy ¹		
ENGL 101	Composition and Rhetoric	3
	Communications Elective	3
	Information Literacy Elective	3
	Information Literacy Elective	3
Technological Solutions & Quantitative Reasoning ¹		
UNIV 101	Foundational Skills	1
	Math Elective MATH 114 or higher	3
	Technology Competency ²	0-3
Critical Thinking ¹		
RLGN 105	Introduction to Biblical Worldview ³	2
	Critical Thinking Elective	3
Civic & Global Engagement ¹		
EVAN 101	Evangelism and the Christian Life ³	2
	Cultural Studies Elective	3
Social & Scientific Inquiry ¹		
	Natural Science Elective	3
	Social Science Elective	3
Christianity & Contexts ¹		
BIBL 105	Old Testament Survey	2
BIBL 110	New Testament Survey	2
THEO 201	Theology Survey I ³	2
THEO 202	Theology Survey II ³	2
Total Hours		40-43

¹ Refer to the list of approved general education electives before enrolling in foundational skill requirements

² All students must pass the Computer Assessment OR complete applicable INFT course

³ Students transferring in 45 or more UG credit hours will have the requirements of RLGN 105 and EVAN 101 waived; Students transferring in 60 or more UG credit hours will also have the requirements of THEO 201 and THEO 202 waived

Major Requirements

Code	Title	Hours
Major Foundational Courses		
MATH 201	Introduction to Probability and Statistics ¹	3
PHYS 101	Elements of Physics ¹	3

Code	Title	Hours
PHYS 103	Elements of Physics Lab ¹	1
Total Hours		7

¹ Course may also fulfill select general education requirements

Code	Title	Hours
Major Core		
AVIA 102	Aviation Foundations	3
AVIA 230	Unmanned Aerial Systems	3
AVIA 235	Small Unmanned Aerial System Ground	3
AVIA 236	Small UAS Flight	1
AVIA 245	Aviation Leadership	3
AVIA 300	Aviation Safety	3
AVIA 301	Remote Pilot Ground	3
AVIA 305	Airplane Aerodynamics	3
AVIA 323	UAS Avionics & Powerplants	3
AVIA 335	Medium UAS Ground and Flight I ^{1,2}	3
AVIA 340	Aviation Weather	3
AVIA 360	Corporate and Business Aviation	3
AVIA 400	Aviation Human Factors	3
AVIA 446	Medium UAS Ground and Flight II ^{1,2}	3
AVIA 447	Medium UAS Ground and Flight III ^{2,3}	3
AVIA 461	Aviation Career Strategies	3
AVIA 470	UAS Program Development	3
AVIA 491	Aeronautics Capstone: Advanced Research Concepts	3
AVMX 445	Medium UAS Maintenance I ^{1,2}	3
	<i>Choose one of the following options:</i>	9-12
Small UAS		
AVIA 237	Small UAS Advanced Flight	
GEOG 370	Geographic Information Systems I	
GEOG 371	Geographic Information Systems II	
Private Pilot		
AVIA 210	Private Ground I	
AVIA 215	Private Ground II	
AVIA 220	Private Flight I	
AVIA 225	Private Flight II	
Total Hours		64-67

¹ AVIA 335, AVIA 446, and AVMX 445 must be taken in the same semester.

² U.S. Citizenship is required.

³ AVIA 447 is only offered during the summer semester.

Code	Title	Hours
Free Electives		
	Choose 0-11 credit hours of Free Electives	0-11
Total Hours		0-11

All applicable prerequisites must be met

Graduation Requirements

- 120 Total hours
- 2.0 Overall grade point average
- 30 Hours must be upper-level courses (300-400 level)
- **Grade of 'C'** Minimum required for all upper-level courses in the major
- 25% Of major and cognate taken through Liberty University
- 30 Hours must be completed through Liberty University
- **Grad App** Submission of Degree Completion Application must be completed within the last semester of a student's anticipated graduation date
- **CSER** All requirements must be satisfied before a degree will be awarded

Course Sequence

Course	Title	Hours
Freshman Year		
First Semester		
BIBL 105	Old Testament Survey	2
ENGL 101	Composition and Rhetoric	3
INQR 101	Inquiry	1
PHYS 103	Elements of Physics Lab	1
UNIV 101	Foundational Skills	1
Natural Science Elective	PHYS 101 ¹	3
Technology Competency	²	0-3
CSER		0
Hours		11-14
Second Semester		
BIBL 110	New Testament Survey	2
RLGN 105	Introduction to Biblical Worldview	2
Communications Elective	¹	3
Information Literacy Elective	¹	3
AVIA 210	Private Ground I	3
AVIA 215	Private Ground II	3
CSER		0
Hours		16
Sophomore Year		
First Semester		
RSCH 201	Research	3
THEO 201	Theology Survey I	2
AVIA 220	Private Flight I	3
AVIA 225	Private Flight II	3
AVIA 230	Unmanned Aerial Systems	3
CSER		0
Hours		14
Second Semester		
THEO 202	Theology Survey II	2
AVIA 235	Small Unmanned Aerial System Ground	3
AVIA 245	Aviation Leadership	3
AVIA 310	Instrument Ground	3
AVIA 340	Aviation Weather	3
CSER		0
Hours		14

Course	Title	Hours
Junior Year		
First Semester		
Math Elective	MATH 201 ¹	3
AVIA 236	Small UAS Flight	1
AVIA 300	Aviation Safety	3
AVIA 320	Instrument Flight	3
AVIA 342	GPS Navigation	3
Elective		2
CSER		0
Hours		15
Second Semester		
CSER		0
Critical Thinking Elective	¹	3
AVIA 305	Airplane Aerodynamics	3
AVIA 335	Medium UAS Ground and Flight I ³	3
AVIA 446	Medium UAS Ground and Flight II ³	3
AVMX 445	Medium UAS Maintenance I ³	3
Hours		15
Third Semester		
AVIA 447	Medium UAS Ground and Flight III ⁴	3
Hours		3
Senior Year		
First Semester		
EVAN 101	Evangelism and the Christian Life	2
AVIA 323	UAS Avionics & Powerplants	3
AVIA 360	Corporate and Business Aviation	3
AVIA 400	Aviation Human Factors	3
CSER		0
Hours		11
Second Semester		
Cultural Studies Elective	¹	3
Information Literacy Elective	¹	3
Social Science Elective	¹	3
AVIA 461	Aviation Career Strategies	3
AVIA 491	Aeronautics Capstone: Advanced Research Concepts	3
CSER		0
Hours		15
Total Hours		114-117

¹ Refer to the list of approved general education electives at General Education Courses before enrolling in foundational skills requirements

² All students must pass the Computer Assessment OR complete applicable INFT course; refer to www.liberty.edu/computerassessment for more information

³ AVIA 335, AVIA 446, and AVMX 445 must be taken in the same semester.

⁴ AVIA 447 is only offered during the summer semester

Additional course sequences may be available for those students with Private Pilot Licenses and other certifications. Students should

contact their Academic Advisor and the School of Aeronautics for further information