AVIATION TECHNOLOGY: FLIGHT AND MAINTENANCE (B.S.) - RESIDENT

Important: This degree plan is effective for those starting this degree program in fall 2025 through summer 2026. 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
Total Hours		**3**

[1] Course may fulfill select general education requirements.

Code	Title	Hours
Major Core		
AVIA 102	Aviation Foundations	3
AVIA 104	Flight Operations Orientation [1]	0-3
AVIA 210	Private Ground I	3
AVIA 215	Private Ground II	3
AVIA 220	Private Flight I	3
AVIA 225	Private Flight II	3
AVIA 245	Aviation Leadership	3
AVIA 300	Aviation Safety	3
AVIA 310	Instrument Ground	3
AVIA 315	Commercial Ground	3
AVIA 320	Instrument Flight	3
AVIA 322	Commercial Flight I: Accelerated	3
AVIA 324	Commercial Flight II: Accelerated	3
AVIA 460	Professional Pilot Career Strategies	3
or AVIA 461	Aviation Career Strategies	
AVIA 491	Aeronautics Capstone	3
AVMT 101	Maintenance Mathematics	1
AVMT 102	Aircraft Sciences	3
AVMT 103	Maintenance Physics	1
AVMT 104	Maintenance Practices I	3
AVMT 105	Aircraft Weight and Balance	1
AVMT 106	Maintenance Practices II	3
AVMT 150	General Curriculum Final	0
AVMT 201	Airframe Auxiliary Systems I	1
AVMT 202	Aircraft Electrical Systems	3
AVMT 203	Aircraft Auxiliary Systems II	2
AVMT 204	Airframe Structures I	3
AVMT 206	Airframe Structures II	2
AVMT 207	Hydraulic and Pneumatic Systems	1
AVMT 208	Airframe Assembly and Inspection	2
AVMT 209	Landing Gear Systems	2
AVMT 211	Fire Protection	1
AVMT 213	Powerplant Fuel Systems	2
AVMT 214	Engine Electrical Systems	3
AVMT 215	Powerplant Lubrication Systems	1
AVMT 219	Engine Instrument Systems	1
AVMT 221	Propeller Systems	2
AVMT 223	Engine Inspections	1
AVMT 250	Airframe Curriculum Final	0
AVMT 312	Reciprocating Engine Technology	3
AVMT 320	Turbine Engine Technology	3
AVMT 350	Powerplant Curriculum Final	0

Code	Title	Hours
Elective [2]		3
Elective [2]		3
Total Hours		**93-96**

[1] AVIA 104 is required for students who do not complete private pilot training at Liberty University's residential campus

[2] Choose any 300-400 level course not already applying to the degree

All applicable prerequisites must be met

Graduation Requirements

- **137** Total hours
- **2.0** Overall grade point average
- **34.25** Hours must be upper-level courses (300-400 level)
- **Grade of 'C'** Minimum required for all upper-level courses in the major and all AVMT courses
- **25%** Of major and cognate taken through Liberty University
- **34.25** 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		
ENGL 101	Composition and Rhetoric	3
INQR 101	Inquiry	1
RLGN 105	Introduction to Biblical Worldview	2
UNIV 101	Foundational Skills	1
Math Elective MATH 201 [1]		3
AVIA 102	Aviation Foundations	3
AVIA 245	Aviation Leadership	3
CSER		
	Hours	**16**
Second Semester		
AVMT 101	Maintenance Mathematics	1
AVMT 102	Aircraft Sciences	3
AVMT 103	Maintenance Physics	1
AVMT 104	Maintenance Practices I	3
AVMT 105	Aircraft Weight and Balance	1
AVMT 106	Maintenance Practices II	3
AVMT 150	General Curriculum Final	0
AVMT 201	Airframe Auxiliary Systems I	1
AVMT 202	Aircraft Electrical Systems	3
AVMT 209	Landing Gear Systems	2
CSER		0
	Hours	**18**
Third Semester		
AVMT 203	Aircraft Auxiliary Systems II	2
AVMT 204	Airframe Structures I	3

Course	Title	Hours
AVMT 206	Airframe Structures II	2
AVMT 207	Hydraulic and Pneumatic Systems	1
AVMT 208	Airframe Assembly and Inspection	2
AVMT 211	Fire Protection	1
AVMT 219	Engine Instrument Systems	1
AVMT 221	Propeller Systems	2
AVMT 223	Engine Inspections	1
AVMT 250	Airframe Curriculum Final	0
	Hours	**15**
Sophomore Year		
First Semester		
AVMT 213	Powerplant Fuel Systems	2
AVMT 214	Engine Electrical Systems	3
AVMT 215	Powerplant Lubrication Systems	1
AVMT 312	Reciprocating Engine Technology	3
AVMT 320	Turbine Engine Technology	3
AVMT 350	Powerplant Curriculum Final	0
CSER		0
	Hours	**12**
Second Semester		
BIBL 105	Old Testament Survey	2
EVAN 101	Evangelism and the Christian Life	2
Natural Science Elective [1]		3
Social Science Elective [1]		3
Technology Competency [2]		0-3
AVIA 210	Private Ground I	3
CSER		0
	Hours	**13-16**
Third Semester		
AVIA 215	Private Ground II	3
AVIA 220	Private Flight I	3
	Hours	**6**
Junior Year		
First Semester		
BIBL 110	New Testament Survey	2
RSCH 201	Research	3
Communications Elective [1]		3
Critical Thinking Elective [1]		3
AVIA 225	Private Flight II [3]	3
CSER		0
	Hours	**14**
Second Semester		
THEO 201	Theology Survey I	2
Information Literacy Elective [1]		3
AVIA 300	Aviation Safety	3
AVIA 310	Instrument Ground	3
AVIA 322	Commercial Flight I: Accelerated	3
CSER		0
	Hours	**14**

Course	Title	Hours
Senior Year		
First Semester		
THEO 202	Theology Survey II	2
AVIA 315	Commercial Ground	3
AVIA 320	Instrument Flight	3
AVIA 460 or AVIA 461	Professional Pilot Career Strategies or Aviation Career Strategies	3
Elective [4]		3
CSER		0
	Hours	**14**
Second Semester		
Cultural Studies Elective [1]		3
Information Literacy Elective [1]		3
AVIA 324	Commercial Flight II: Accelerated	3
AVIA 491	Aeronautics Capstone: Advanced Research Concepts	3
Elective [4]		3
CSER		0
	Hours	**15**
	Total Hours	**137-140**

[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 104 is required for students who do not complete private pilot training at Liberty University's residential campus

[4] Choose any 300-400 level course not already applying to the degree

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