

LIBERTY

UNIVERSITY.
SCHOOL of AERONAUTICS

Aviation Maintenance Technician Program **Curriculum Subject Areas**

| <u>LU Course</u> | <u>FAA Subject Area</u> | <u>Hours Offered</u> | |
|--|----------------------------|--|-----|
| G E N E R A L | AVMT 101 | Mathematics | 22 |
| | AVMT 103 | Basic Physics | 30 |
| | AVMT 105 | Weight and Balance | 28 |
| | AVMT 102 | Fundamental Electrical Theory | 86 |
| | AVMT 102 | Aircraft Drawings | 38 |
| | AVMT 104 | Maintenance Documents and Regulations | 44 |
| | AVMT 104 | Materials and Processes | 92 |
| | AVMT 106 | Cleaning and Corrosion Control | 38 |
| | AVMT 106 | Fluid Lines and Fittings | 16 |
| | AVMT 106 | Ground Operations and Servicing | 24 |
| | AVMT 106 | Human Factors | 20 |
| AVMT 106 | Aircraft Finishes | 18 | |
| A I R F R A M E | AVMT 203 | Cabin Atmosphere Control Systems | 26 |
| | AVMT 201 | Communication and Navigation Systems | 26 |
| | AVMT 205 | Aircraft Fuel Systems | 34 |
| | AVMT 201 | Aircraft Instrument Systems | 22 |
| | AVMT 205 | Aircraft Fire Protection Systems | 18 |
| | AVMT 201 | Ice and Rain Control Systems | 12 |
| | AVMT 203 | Position and Warning Systems | 12 |
| | AVMT 202 | Aircraft Electrical Systems | 92 |
| | AVMT 204 | Sheet Metal Structures | 78 |
| | AVMT 206 | Non-Metallic Structures | 48 |
| | AVMT 206 | Aircraft Welding | 26 |
| | AVMT 208 | Aircraft Covering | 8 |
| | AVMT 208 | Assembly and Rigging | 40 |
| | AVMT 208 | Airframe Inspection | 58 |
| | AVMT 207 | Aircraft Hydraulic and Pneumatic Systems | 44 |
| AVMT 209 | Landing Gear Systems | 60 | |
| AVMT 208 | Water and Waste Management | 12 | |
| P O W E R P L A N T | AVMT 312 | Reciprocating Engines | 136 |
| | AVMT 214 | Engine Electrical Systems | 110 |
| | AVMT 213 | Engine Fuel Systems | 102 |
| | AVMT 215 | Lubrication Systems | 28 |
| | AVMT 219 | Engine Cooling Systems | 18 |
| | AVMT 217 | Engine Exhaust Systems | 18 |
| | AVMT 219 | Induction Systems | 24 |
| | AVMT 219 | Engine Instrument Systems | 34 |
| | AVMT 217 | Engine Fire Protection Systems | 22 |
| | AVMT 221 | Propeller Systems | 58 |
| AVMT 320 | Turbine Engines | 92 | |

This list represents the FAA Subject Areas (material) to be covered within the context of the Liberty University courses taken for licensure.