

AVIATION MAINTENANCE TECHNOLOGY (AMT)

AMT 101 Beginning Aviation Maintenance 3 Credit hours

This course provides an introduction to aviation maintenance, including topics related to aircraft features, nomenclature, materials, hardware and systems, and principles of physics of flight.

Grade Mode: Normal Grading Mode

AMT 102 Regulations & Publications 3 Credit hours

This course provides a review of the Federal Aviation Administration's regulations, maintenance publications, weight and balance procedures, and the interpretation of technical drawings, charts, and graphs.

Grade Mode: Normal Grading Mode

AMT 103 Technical Skills & Practices 3 Credit hours

This course reviews proper use of power tools, shop safety, fluid lines and fittings, cleaning and corrosion control, and the interpretation of various non-destructive inspection methods.

Grade Mode: Normal Grading Mode

AMT 105 Aviation Utility Systems 3 Credit hours

The course reviews airframe ice and rain control, fire protection, and fuel systems as well as doors, windows, emergency equipment, cargo loading, galley and lavatory systems, and passenger service units.

Grade Mode: Normal Grading Mode

AMT 109 Aviation Electronics 3 Credit hours

This course examines the fundamental principles of electronics as applied to aircraft electrical systems. Specific topics covered include AC/DC series-parallel circuits, circuit analysis theorems, transistors, digital theory, and devices.

Grade Mode: Normal Grading Mode

AMT 110 Aviation Power Systems 3 Credit hours

This course examines AC and DC power generation systems, voltage regulation, power distribution, and circuit protection devices used in aircraft. Students will learn how to inspect and repair these components.

Grade Mode: Normal Grading Mode

AMT 201 Reciprocating Engines 3 Credit hours

This course is a study of the theory of operation of reciprocating engines and their systems with particular emphasis on the principles of operation, nomenclature, construction, and design.

Grade Mode: Normal Grading Mode

AMT 202 Sheet Metal Structures 3 Credit hours

This course will review all aspects of sheet metal structures with an emphasis on precise construction and restoration of sheet aircraft metal structures.

Grade Mode: Normal Grading Mode

AMT 203 Reciprocating Engine Maint 3 Credit hours

This course emphasizes the hands-on maintenance and repair of piston engines. Topics will include engine removal, replacement, troubleshooting, inspection, engine maintenance, system component repair, inspection, and troubleshooting.

Grade Mode: Normal Grading Mode

AMT 204 Propeller & Control Systems 3 Credit hours

This course is a study of propellers and their components and their operation with special attention given to the principles of operation, nomenclature, construction, and system design.

Grade Mode: Normal Grading Mode

AMT 205 Turbine Engines 3 Credit hours

This course reviews the theory of operation of turbine engines and their systems with an emphasis on the principles of operation, nomenclature, construction, and system design.

Grade Mode: Normal Grading Mode

AMT 206 Fluid Power and Landing Gear 3 Credit hours

This course provides a comprehensive review of aircraft hydraulic, pneumatic, fuel, and landing gear systems and their routine inspection and maintenance, and repair.

Grade Mode: Normal Grading Mode

AMT 207 Turbine Engine Maintenance 3 Credit hours

This course emphasizes the principles of operation, nomenclature, construction, and system design of turbine engines, as well as their maintenance, inspection, overhaul, repair, troubleshooting.

Grade Mode: Normal Grading Mode

AMT 208 Cabin Atmosphere Systems 3 Credit hours

This course provides a detailed review of aircraft heating, oxygen, and pressurization systems for Business, Commercial, and Transport aircraft systems.

Grade Mode: Normal Grading Mode

AMT 209 Airframe Inspection and FI Con 3 Credit hours

The focus of this course includes inspections, preventative maintenance, scheduled maintenance, rebuilding, and alteration of flight control systems, including ailerons, flaps, rudders, and elevators.

Grade Mode: Normal Grading Mode

AMT 210 Nonmetallic Structures 3 Credit hours

Students will learn how to work with wood, fabric, plastic, and advanced aircraft composites to ensure an aircraft remains airworthy.

Grade Mode: Normal Grading Mode

AMT 211 Aircraft Information Systems 3 Credit hours

A review of aircraft and powerplant communications, navigation, and instrument systems. Students will learn to test and repair or replace components of avionics and information systems.

Grade Mode: Normal Grading Mode

AMT 215 Certification Test Prep I 1 Credit hour

This course will help students to prepare for the General AMT Federal Aviation Administration test.

Grade Mode: Credit/No Credit Grade Only

AMT 216 Certification Test Prep II 1 Credit hour

This course will help students to prepare for the Airframe AMT Federal Aviation Administration test.

Grade Mode: Credit/No Credit Grade Only

AMT 217 Certification Test Prep III 1 Credit hour

This course will help students to prepare for the Powerplant AMT Federal Aviation Administration test.

Grade Mode: Credit/No Credit Grade Only