

AMT

Courses

AMT 100 Aviation Standard Practices

6 Credits. 4 Lecture Hours. 6 Lab Hours.

A course that uses FAA-approved instruction for foundation concepts and techniques in aviation maintenance. Topics include: fluid lines and fittings, materials and processes, and cleaning and corrosion control.

Prerequisites: AFL 085 or appropriate placement test score

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=100subject_code=AMT)

AMT 105 Aircraft Orientation

4 Credits. 2 Lecture Hours. 5 Lab Hours.

A course on foundation concepts in aviation maintenance. Topics include: aircraft drawings, ground operations and servicing, mechanic privileges, and basic concepts of physics.

Prerequisites: AFL 085 or appropriate placement test score

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=105subject_code=AMT)

AMT 110 Aircraft Electricity

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course that uses FAA-approved instruction for foundation concepts and techniques in aviation maintenance. Topics include: basic concepts of math, physics, and electricity; aircraft drawings; and maintenance forms and records.

Prerequisites: MAT 120 or appropriate placement test score

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=110subject_code=AMT)

AMT 115 Aircraft Weight and Balance

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on foundation concepts and techniques related to aircraft weight and balance. Topics include: maintenance forms and records, and maintenance publications.

Prerequisites: MAT 120 or appropriate placement test score

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=115subject_code=AMT)

AMT 120 Aircraft Non-Metal Structures

5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course on wood structures, aircraft covering, aircraft finishes, and inspection of bonded structures.

Prerequisites: AMT 105

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=120subject_code=AMT)

AMT 125 Aircraft Metal Structures

5 Credits. 3 Lecture Hours. 5 Lab Hours.

A course on repairing and maintaining sheet metal structures. Topics include: selecting and installing rivets and fasteners, forming and bending sheet metal, and laying out repairs.

Prerequisites: AMT 100 and AMT 105

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=125subject_code=AMT)

AMT 130 Aircraft Welding Processes

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on welding of magnesium, titanium, aluminum, and steel in aircraft. The course does not prepare students for certification specific to welding.

Prerequisites: None

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=130subject_code=AMT)

AMT 135 Aircraft Landing Gear Systems

5 Credits. 3 Lecture Hours. 5 Lab Hours.

A course on repairing and maintaining aircraft landing gear systems and hydraulic and pneumatic power systems.

Prerequisites: AMT 105 and MAT 121

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=135subject_code=AMT)

AMT 140 Airframe Electrical Systems

6 Credits. 4 Lecture Hours. 4 Lab Hours.

A course on troubleshooting aircraft electrical systems and inspecting direct current generators.

Prerequisites: AMT 105 and AMT 110

View Sections (http://webapps.cincinnatiastate.edu/wwwTools/MCL/default.aspx?course_number=140subject_code=AMT)

AMT 145 Airframe Electronic Systems

2 Credits. 2 Lecture Hours. 1 Lab Hour.

A course on aircraft instrument systems and communication and navigation systems.

Prerequisites: AMT 105 and AMT 110

View Sections (http://webapps.cincinnatiastate.edu/wwwTools/MCL/default.aspx?course_number=145subject_code=AMT)

AMT 150 Airframe Systems

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on systems for cabin atmosphere and control, position and warning, ice and rain control, fire protection, and aircraft fuel.

Prerequisites: AMT 100, AMT 105, and AMT 110

View Sections (http://webapps.cincinnatiastate.edu/wwwTools/MCL/default.aspx?course_number=150subject_code=AMT)

AMT 155 Airframe Assembly and Rigging

5 Credits. 3 Lecture Hours. 4 Lab Hours.

A course on balancing rigging, and inspecting primary and secondary flight controls of rotor and fixed wing aircraft.

Prerequisites: AMT 100, AMT 105, and MAT 121

View Sections (http://webapps.cincinnatiastate.edu/wwwTools/MCL/default.aspx?course_number=155subject_code=AMT)

AMT 160 Airframe Inspection

2 Credits. 1 Lecture Hour. 3 Lab Hours.

A course on inspection of airframes and sheet metal structures, repair of sheet metal structures, and conformity inspections on rotor and fixed wing aircraft.

Prerequisites: AMT 105 and AMT 115

View Sections (http://webapps.cincinnatiastate.edu/wwwTools/MCL/default.aspx?course_number=160subject_code=AMT)

AMT 191 Part-Time Cooperative Education 1: Aviation Maintenance Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 100

View Sections (http://webapps.cincinnatiastate.edu/wwwTools/MCL/default.aspx?course_number=191subject_code=AMT)

AMT 192 Part-Time Cooperative Education 2: Aviation Maintenance Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 191

View Sections (http://webapps.cincinnatiastate.edu/wwwTools/MCL/default.aspx?course_number=192subject_code=AMT)

AMT 193 Part-Time Cooperative Education 3: Aviation Maintenance Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 192

View Sections (http://webapps.cincinnatiastate.edu/wwwTools/MCL/default.aspx?course_number=193subject_code=AMT)

AMT 194 Part-Time Cooperative Education 4: Aviation Maintenance Technology**1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their fourth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 193

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=194subject_code=AMT)

AMT 195 Part-Time Cooperative Education 5: Aviation Maintenance Technology**1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 194

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=195subject_code=AMT)

AMT 196 Part-Time Cooperative Education 6: Aviation Maintenance Technology**1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their sixth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 195

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=196subject_code=AMT)

AMT 198 First Year Special Topics in Aviation Maintenance Technology**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Aviation Maintenance Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=198subject_code=AMT)

AMT 199 First Year Independent Project in Aviation Maintenance Technology**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A project related to Aviation Maintenance Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Aviation Maintenance Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=199subject_code=AMT)

AMT 201 Powerplant Maintenance 1**8 Credits. 6 Lecture Hours. 4 Lab Hours.**

A course that uses FAA-approved instruction for concepts and techniques in inspection and repair of radial engines; overhaul of reciprocation engines; and inspection, check, service and repair of reciprocating engines and engine systems.

Prerequisites: AMT 100 and AMT 105

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=201subject_code=AMT)

AMT 202 Powerplant Maintenance 2**7 Credits. 5 Lecture Hours. 5 Lab Hours.**

A continuation of AMT 201, using FAA-approved instruction for concepts and techniques in installation, troubleshooting, and removal of reciprocating engines; overhaul of turbine engines; and induction and engine airflow systems.

Prerequisites: AMT 201

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=202subject_code=AMT)

AMT 203 Powerplant Maintenance 3**5 Credits. 4 Lecture Hours. 2 Lab Hours.**

A continuation of AMT 202, using FAA-approved instruction in the subject areas of inspection, check, service, and repair of turbine engines and turbine engine installations; installation, troubleshooting, and removal of turbine engines; performing powerplant conformity and airworthiness inspection; engine exhaust and reverser systems; ducted fans; and auxiliary power units.

Prerequisites: AMT 202

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=203subject_code=AMT)

AMT 205 Starting and Ignition Systems**5 Credits. 3 Lecture Hours. 4 Lab Hours.**

A course that uses FAA-approved instruction for concepts and techniques in ignition and starting systems for reciprocating and turbine aircraft engines. Topics include: inspection, troubleshooting, and repair.

Prerequisites: AMT 105 and AMT 110

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=205subject_code=AMT)

AMT 210 Engine Fuel and Lubrication Systems**7 Credits. 5 Lecture Hours. 5 Lab Hours.**

A course that uses FAA-approved instruction for concepts and techniques in lubrication systems, fuel metering systems, and engine fuel systems.

Prerequisites: AMT 100 and AMT 105

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=210subject_code=AMT)

AMT 215 Aircraft Propellers**4 Credits. 2 Lecture Hours. 2 Lab Hours.**

A course that uses FAA-approved instruction for concepts and techniques in removal, installation, inspection, and repair of fixed and variable pitch aircraft propellers and propeller governing systems.

Prerequisites: AMT 105 and AMT 115

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=215subject_code=AMT)

AMT 271 Avionics 1**4 Credits. 3 Lecture Hours. 2 Lab Hours.**

A course on concepts and skills for repair of avionics equipment. Topics include: procedures used by air carriers and repair stations; avionics publications, forms, and records; tools and equipment; buildup of wire bundles; review of Boolean Algebra; and ARINC codes.

Prerequisites: AMT 155

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=271subject_code=AMT)

AMT 272 Avionics 2**4 Credits. 3 Lecture Hours. 2 Lab Hours.**

A continuation of AMT 271. Topics include: logic gates, troubleshooting analog and digital electronic systems to line replicable units, amplifier theory, on-board navigation and maintenance computer systems, and intercom and passenger entertainment systems.

Prerequisites: AMT 271

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=272subject_code=AMT)

AMT 291 Full-Time Cooperative Education 1: Aviation Maintenance Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=291subject_code=AMT)

AMT 292 Full-Time Cooperative Education 2: Aviation Maintenance Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 291

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=292subject_code=AMT)

AMT 293 Full-Time Cooperative Education 3: Aviation Maintenance Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 292

View Sections (http://webapps.cincinnatistate.edu/wwwTools/MCL/default.aspx?course_number=293subject_code=AMT)

AMT 294 Internship 1: Aviation Maintenance Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 100

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=294subject_code=AMT)

AMT 295 Internship 2: Aviation Maintenance Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: AMT 294

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=295subject_code=AMT)

AMT 298 Second Year Special Topics in Aviation Maintenance Technology**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Aviation Maintenance Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=298subject_code=AMT)

AMT 299 Second Year Independent Project in Aviation Maintenance Technology**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A project related to Aviation Maintenance Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Aviation Maintenance Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

View Sections (http://webapps.cincinnati.state.edu/wwwTools/MCL/default.aspx?course_number=299subject_code=AMT)