

Aircraft Maintenance Technology Associate in Industrial Technology

Entrance Requirements:

High school graduate or equivalent (GED); acceptable ASSET or COMPASS score; no physical or mental disabilities that would endanger the student or others, i.e., fainting, seizures, dizziness, impaired hearing or vision, etc.; interview with the AMT department head or a designated representative required prior to start date.

Type of Program:

Day or night

Type of Degree:

Associate degree

Professional Credentials:

FAA Airframe and Powerplant Technician Certification (subject to passing exam)

Employment Opportunities:

General aviation, commercial airlines, corporate aviation, aircraft manufacturers, contract repair facilities, aviation-related maintenance activities

- This program, offered at Donaldson Center, is approved by the Federal Aviation Administration as well as the Veterans Administration. The program provides students with the technical, mechanical and academic skills required to become aircraft maintenance technicians. Successful completion qualifies students to take the FAA airframe and powerplant certification exams.
- Articulation for a bachelor's degree (Aviation Maintenance Management) is offered through Embry-Riddle University.
- To graduate with an associate degree, candidates must meet the computer competency requirement by taking CPT 101 or taking and passing a course exemption exam at a cost to be assessed by the college.

Recommended Program Schedule

First Semester – Fall

ACM 101	General Regulations	2.0
ACM 102	Aviation Sciences	3.0
ACM 105	Basic Aircraft Electricity	4.0
ACM 110	Aircraft Drawings	1.0
ACM 115	Ground Handling and Servicing	3.0
ACM 120	Materials and Corrosion Control	4.0

Second Semester – Spring

ACM 125	Wood Structures, Coverings, and	2.0
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	Finishes		
ACM 130	Sheet Metal Layout and Repair	4.0	
ACM 140	Bonded Structures and Welding	3.0	
ACM 150	Assembly and Rigging	3.0	
CPT 101	Introduction to Computers†	3.0	

Third Semester – Summer

ACM 155	Aircraft Environmental Systems	3.0	
ACM 165	Hydraulic and Pneumatic Systems	3.0	
ACM 167	Landing Gear Systems	3.0	
ACM 170	Aircraft Electrical Systems	4.0	

Fourth Semester – Fall

ACM 160	Utility and Warning Systems	3.0	
ACM 172	Aircraft Fuel Systems	1.0	
ACM 174	Airframe Inspection	1.0	
ACM 205	Ignition and Starting Systems	3.0	
ACM 224	Turbine Engine Overhaul	4.0	
	Social Sciences Elective*	3.0	

Fifth Semester – Spring

ACM 201	Lubricating Systems	2.0	
ACM 210	Reciprocating Engine Overhaul	4.0	
ACM 234	Propellers and Components	4.0	
ACM 240	Engine Electrical, Instrumentation, and Fire Protection	3.0	
	Humanities Elective*	3.0	

Sixth Semester – Summer

ACM 226	Engine Inspection	1.0	
ACM 245	Powerplant Fuel Systems	4.0	
ACM 250	Induction, Cooling, and Exhaust	3.0	
ENG 165	Professional Communications*/††	3.0	
MAT 170	Algebra, Geometry, & Trigonometry I*/†††	3.0	

Total credit hours 90.0

*General Education course (may be taken in any semester)

†EGR 130 may be substituted for CPT 101.

††Students may take ENG 101 and SPC 205 in lieu of ENG 165.

†††Recommend MAT 109 if placement allows.

Note: See your advisor for recommended evening schedules.