

AVIATION INSTITUTE

Aviation Maintenance Management Associate in Applied Science Major Code A005

Program Description

The Aviation Maintenance Management Program leads to the Associate in Applied Science degree and the Federal Aviation Administration Airframe and Power Plant Mechanic Certificates. The plan of study complies with the Federal Aviation Regulations Part 147 for an approved aviation maintenance technician's school, and, in addition, offers the advantages of college level academic and management courses.

Students seeking an Associate in Applied Science degree in Aviation Maintenance Management must complete the general requirements for both the Airframe Mechanics and Power Plant Mechanics diplomas or possess a valid FAA A&P certificate, as well as 23 hours of additional required college credits.

Related Programs

Professional Pilot Technology Associate in Science Major Code 2107
 Air Traffic Control Associate in Applied Science Major Code A039
 Aviation Operations Associate in Science Major Code 2105 (2105E)[§]

Airport Operations Management Associate in Science Major Code 21051[§]
 Airport Management Certificate Major Code 6304
 Aviation Maintenance Management Associate in Science Major Code 2204
 Aircraft Airframe Mechanics Vocational Certificate Major Code 5272
 Aircraft Power Plant Mechanics Vocational Certificate Major Code 5273
 Avionics Vocational Certificate Major Code 5299
§Students can earn a degree from 2105 (2105E) or 21051, but not from both of these programs.

General Entrance Requirements

- HS Diploma or GED
- PERT[‡]

[‡] The PERT test places students into preparatory level reading, writing and math courses designed to prepare them for college coursework. The PERT test may be replaced by other test or coursework: see the College catalog for more details. All preparatory courses must be completed in order to graduate.

First Year Term I (General)

*AMT 1001	Basic Electricity	2
*AMT 1010	Aircraft Drawings	1
*AMT 1020	Weight & Balance	1
*AMT 1030	Fluid Lines & Fittings	1
*AMT 1040	Material Processes	2
*AMT 1050	Ground Operations and Servicing	1
*AMT 1060	Cleaning and Corrosion Control	1
*AMT 1070	Applied Mathematics	1
*AMT 1081	FAR's, Forms and Privileges.	1
*AMT 1090	Basic Physics	1
Total Term Semester Hours		12

First Year Term II (Airframe I)

*AMT 1110	Aircraft Wood Structures	1
*AMT 1115	Aircraft Covering	1
*AMT 1120	Aircraft Finishes	1
*AMT 1130	Sheet Metal Structures	4
*AMT 1140	Aircraft Welding	1
*AMT 1155	Assembly and Rigging	2
*AMT 1200	Landing Gear Systems	2
Total Term Semester Hours		12

Term III (Airframe II)

*AMT 1160	Airframe Inspection	1
*AMT 1210	Hydraulic and Pneumatic System	2
*AMT 1220	Cabin Atmosphere Control Systems	1
*AMT 1230	Aircraft Instrument Systems	1
*AMT 1240	Communications and Navigation Systems	1
*AMT 1250	Aircraft Fuel Systems	1
*AMT 1260	Aircraft Electrical Systems	3
*AMT 1270	Position and Warning Systems	1
*AMT 1285	Ice/Rain/Fire Protection	1

courses will be permitted with special permission from the Program Manager.

Total Term Semester Hours 12

Second Year Term I (Power Plant I)

*AMT 2300	Reciprocating Engines	5
*AMT 2312	Turbine Engines & Turbine Engine Troubleshooting	4
*AMT 2400	Engine Instrument Systems	1
*AMT 2420	Engine Electrical Systems	2
Total Term Semester Hours		12

Term II (Power Plant II)

*AMT 2410	Engine Fire Protection Systems	1
*AMT 2435	Lubrication Systems	1
*AMT 2440	Ignition Systems	2
*AMT 2450	Engine Fuel Systems	1
*AMT 2451	Fuel Metering Systems	2
*AMT 2460	Induction Systems	1
*AMT 2475	Engine Cooling and Exhaust Systems	1
*AMT 2490	Propellers and Unducted Fans	2
*AMT 2320	Engine Inspection	1
Total Term Semester Hours		12
Total Airframe & Power Plant Credits		60

* Requires a pre- or co-requisite or proper score on placement test. See course description online at www.broward.edu.

** Students must fulfill the computer literacy general education requirements within the first 15 hours of BC credit by successfully completing the basic student technology test or pass the CGS1060C to earn the degree.

Note: Students may enter the program during any term but must register for the AMT certificate courses as a block during a particular term. Enrollment for individual AMT

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It is strongly recommended that students see an academic advisor or counselor every term.

The following additional academic courses are required for students desiring the Associate in Science degree in Aviation Maintenance Management:

*ENC 1101	English Composition	3
ATT 1100	Aeronautical Science or	
ASC 1010	History of Aviation	3
MNA 2345	Principles of Supervision	3
SPC 1024	Introduction to Speech	3
Elective	Humanities/Fine Arts	3
Elective	Social/Behavioral Sciences	3
*MTB 1310	Applied Mathematics or	
*MAT 1033	Intermediate Algebra	3
HSC 1101C	Healthful Living	1
	Total Additional Credits	22