

Aerospace Academy

1st Year Program of Studies 8 courses with total of 21 credit hours

Fall Semester	Credit
AERM 1201 Introduction to Aviation* <i>*10-hr OSHA</i> <i>An overview of aviation maintenance.</i>	2
AERM 1315 Aviation Science <i>Fundamentals of mathematics, physics & drawing as they apply to aircraft principles & operations.</i>	3
AERM 1303 Shop Practice <i>Introduction to the correct use of hand tools and equipment & precision measurement; identification of aircraft hardware; & fabrication of fluid lines and tubing.</i>	3
Fall Semester Total	8

Spring Semester	Credit
AERM 1208 Federal Aviation Regulations <i>A course in the use & understanding of the FAA & aircraft manufacturer's publications, forms & records.</i>	2
AERM 1205 Weight & Balance <i>An introduction to FAA required subjects relating to weighing of aircraft, performance of weight & balance calculations, & appropriate maintenance of record entries.</i>	2
AERM 1303 Ground Operations <i>An introduction course in fuels, servicing methods and procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.</i>	3
POFT 1220 Job Search Skills <i>A course to provide students with necessary skills to seek & obtain employment in business & industry.</i>	2
Spring Semester Total	9

Summer Semester	Credit
AERM 2486 Internship: Aircraft Mechanics & Aircraft Maintenance Technology/Technician <i>Practical, general workplace training supported by an individualized learning plan.</i>	4
Summer Total	4
Year 1 Program Total	21

**Occupational Skills Award
Aircraft Technology (OSA)**
(5 courses, 13 hours)

2nd Year Program of Studies 4 courses with total of 11 or 12 credit hours

Fall Semester	Credit
AERM 1414 Basic Electricity <i>A study of aircraft electrical systems and their requirements.</i>	4
AERM 1254 Aircraft Composite <i>A study of the inspection & repair of composite, Fiberglass, honeycomb, and laminated structural materials.</i>	2
Fall Semester Total	6

Spring Semester	Credit
Aircraft Structures Mechanic	
AERM 1241 Wood, Fabric & Finishes <i>A course in the use & care of various covering materials, finishes, & wood structures including approved methods and procedures.</i>	2
POFT 1220 Aircraft Sheet Metal <i>A course in inspection & repair of sheet metal structures.</i>	3
Spring Semester Total	5
Year 2 Program Total	11

OR	
Aircraft Turbine Mechanic	
AERM 1351 Aircraft Turbine Engine Theory <i>Theory, history & servicing of turbine engines.</i>	3
AERM 2351 Aircraft Turbine Engine Overhaul <i>Topics address inspection, disassembly, re-assembly & replacement of gas turbine engines, sections, & components as well as operational troubleshooting & analysis.</i>	3
Summer Total	6
Year 2 Program Total	12

Level I Certificate of Completion

Aircraft Structures Mechanic	Or	Aircraft Turbine Mechanic
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Two Year Program of Studies: 12 Courses totaling 32 (Structures) or 33 (Turbine) credit hours

Aerospace Academy

Level I Certificate of Completion Aircraft Structures Mechanic

ASSOCIATE OF APPLIED SCIENCES

Aircraft Technician Airframe

Semester 1	Credit
ENGL 1301 Composition I or other*	3
ENGL 1301 Contemporary Mathematics II or other*	3
ENGL 1301 Composition I or other*	3
ENGL 1301 Composition I or other*	3
ENGL 1301 Composition I or other*	3
1st Semester Total	15
Semester 2	Credit
AERM 1205 Weight & Balance	2
AERM 1208 Federal Aviation Regulations	2
AERM 1310 Ground Operations	3
AERM 1303 Shop Practices	3
AERM 1315 Aviation Science	3
AERM 1414 Basic Electricity	4
AERM 1241 Wood, Fabric & Finishes	2
2nd Semester Total	19
Semester 3	Credit
AERM 1243 Instruments & Navigation/Communication	2
AERM 2231 Airframe Inspection	2
AERM 1345 Aircraft Electrical Systems	3
3rd Semester Total	7
Semester 4	Credit
AERM 1449 Hydraulic, Pneumatic, & Fuel Systems	4
AERM 1350 Landing Gear Systems	3
AERM 1254 Aircraft Composites	2
AERM 1253 Aircraft Welding	2
AERM 1352 Aircraft Sheet Metal	3
AERM 1347 Aircraft Auxiliary Systems	3
AERM 2233 Assembly & Rigging	2
4th Semester Total	19
Program Total	60

Level I Certificate of Completion Aircraft Turbine Mechanic

ASSOCIATE OF APPLIED SCIENCES

Aircraft Technician Powerplant

Semester 1	Credit
ENGL 1301 Composition I or other*	3
MATH 1333 Contemporary Mathematics II or other*	3
PHYS 1305 Introductory to Physics I Lecture or other*	3
ECON 1301 Introduction to Economics or other*	3
ARTS 2326 Sculpture I or other*	3
1st Semester Total	15
Semester 2	Credit
AERM 1205 Weight & Balance	2
AERM 1208 Federal Aviation Regulations	2
AERM 1310 Ground Operations	3
AERM 1303 Shop Practices	3
AERM 1315 Aviation Science	3
AERM 1414 Basic Electricity	4
AERM 1444 Aircraft Reciprocating Engines	4
2nd Semester Total	21
Semester 3	Credit
AERM 2352 Aircraft Powerplant Inspection	3
3rd Semester Total	3
Semester 4	Credit
AERM 2547 Aircraft Reciprocating Overhaul	5
AERM 1340 Aircraft Propellers	3
AERM 1351 Aircraft Turbine Engine Theory	3
AERM 2351 Aircraft Turbine Engine Overhaul	3
AERM 1456 Powerplant Electrical	4
AERM 1357 Fuel Metering & Induction Systems	3
4th Semester Total	21
Program Total	60

DC/AA: 24

Total AAS Hours: 60

Hours needed Post DC/AA: 36

General Academics: 15

Specific Hours: 21

DC/AA: 23

Total AAS Hours: 60

Hours needed Post DC/AA: 37

General Academics: 15

Specific Hours: 22