

AEROSPACE ACADEMY

1st Year Program of Studies

Courses in blue articulate into associates.

Fall Semester	Credit	Spring Semester	Credit
AERM 1315 Aviation Science* <i>*10hr OSHA</i> Fundamentals of mathematics, physics & drawing as they apply to aircraft principles & operations.	3	AERM 1208 Federal Aviation Regulations A course in the use & understanding of the FAA and aircraft manufacturer's publications, forms and records.	2
AERM 1303 Shop Practice Introduction to the correct use of hand tools and equipment & precision measurement; identification of aircraft hardware; and fabrication of fluid lines and tubing.	3	AERM 1205 Weight & Balance An introduction to FAA required subjects relating to weighing of aircraft, performance of weight & balance calculations, & appropriate maintenance of record entries.	2
		AERM 1310 Ground Operations An introduction course in fuels, servicing methods and procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.	3
Fall Semester Total	6	Spring Semester Total	7
Year 1 Total <i>Occupational Skills Award Aircraft Technology (OSA)</i>		13	
Summer Semester	Credit		Credit
AERM 1315 Internship: Aircraft Mechanics & Aircraft Maintenance Technology/Technician Practical, general workplace training supported by an individualized learning plan.			4
Summer Semester Total			4

2nd Year Program of Studies

Courses in blue articulate into associates.

Fall Semester	Credit		Credit	
AERM 1315 Basic Electricity A study of aircraft electrical systems and their requirements.	4	AERM 1315 Aircraft Composite A study of the inspection & repair of composite, fiberglass, honeycomb, and laminated structural materials.	2	
Fall Semester Total		6		
Spring Semester <i>Aircraft Structures Mechanic</i>	Credit	[OR]	Spring Semester <i>Aircraft Turbine Mechanic</i>	
AERM 1315 Wood, Fabric & Finishes A course in the use & care of various covering materials, finishes, & wood structures including approved methods and procedures.	2		AERM 1315 Aircraft Turbine Engine Theory Theory, history & servicing of turbine engines.	3
AERM 1315 Aircraft Sheet Metal A course in inspection & repair of sheet metal structures.	3		AERM 1315 Aircraft Turbine Engine Overhaul Topics address inspection, disassembly, re-assembly & replacement of gas turbine engines, sections, & components as well as operational troubleshooting & analysis.	3
Spring Semester Total	5		Spring Semester Total	6
Year 2 Total <i>(with Aircraft Structures Mechanic)</i>			Year 2 Total <i>(with Aircraft Turbine Mechanic)</i>	
Level I Certificate of Completion		11	Level I Certificate of Completion	
			12	

Two Year Program of Studies: 10 Courses totaling 28 (Structures) or 29 (Turbine) credit hours

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AEROSPACE ACADEMY

Level I Certificate of Completion

Aircraft Structures Mechanic

ASSOCIATE OF APPLIED SCIENCES

Aircraft Technician Airframe

Courses in blue articulate into associates.

Semester 1	Credit
ENGL 1301 <i>Composition I or other*</i>	3
MATH 1333 <i>Contemporary Mathematics II or other*</i>	3
PHYS 1305 <i>Introductory to Physics I Lecture or other*</i>	3
ECON 1301 <i>Introduction to Economics or other*</i>	3
ARTS 2326 <i>Sculpture I or other*</i>	3
1st Semester Total	15
Semester 2	Credit
AERM 1205 <i>Weight & Balance</i>	2
AERM 1208 <i>Federal Aviation Regulations</i>	2
AERM 1310 <i>Ground Operations</i>	3
AERM 1303 <i>Shop Practices</i>	3
AERM 1315 <i>Aviation Science</i>	3
AERM 1414 <i>Basic Electricity</i>	4
AERM 1241 <i>Wood, Fabric & Finishes</i>	2
2nd Semester Total	19
Semester 3	Credit
AERM 1243 <i>Instruments & Navigation/Communication</i>	2
AERM 2231 <i>Airframe Inspection</i>	2
AERM 1345 <i>Aircraft Electrical Systems</i>	3
3rd Semester Total	7
Semester 4	Credit
AERM 1449 <i>Hydraulic, Pneumatic, & Fuel Systems</i>	4
AERM 1350 <i>Landing Gear Systems</i>	3
AERM 1254 <i>Aircraft Composites</i>	2
AERM 1253 <i>Aircraft Welding</i>	2
AERM 1352 <i>Aircraft Sheet Metal</i>	3
AERM 1347 <i>Aircraft Auxiliary Systems</i>	3
AERM 2233 <i>Assembly & Rigging</i>	2
4th Semester Total	19
Program Total	60

DC/AA: 24	Total AAS Hours: 60
Hours needed Post DC/AA: 36	General Academics: 15
	Specific Hours: 21

Level I Certificate of Completion

Aircraft Turbine Mechanic

ASSOCIATE OF APPLIED SCIENCES

Aircraft Technician Powerplant

Courses in blue articulate into associates.

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

DC/AA: 23	Total AAS Hours: 60
Hours needed Post DC/AA: 37	General Academics: 15
	Specific Hours: 22