

AEROSPACE ACADEMY

1st Year Program of Studies

Courses in blue articulate into associate of applied science degree (AAS).

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
AERM 2480 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 associate of applied science degree (AAS).

Fall Semester <i>Aircraft Structures Mechanic</i>	Credit	<i>[OR]</i>	Fall Semester <i>Aircraft Turbine Mechanic</i>	Credit
AERM 1414 Basic Electricity A study of aircraft electrical systems and their requirements.	4		AERM 1414 Basic Electricity A study of aircraft electrical systems and their requirements.	4
AERM 1254 Aircraft Composite A study of the inspection & repair of composite, fiber-glass, honeycomb, and laminated structural materials.	2		AERM 1254 Aircraft Composite A study of the inspection & repair of composite, fiber-glass, honeycomb, and laminated structural materials.	2
Spring Semester <i>Aircraft Structures Mechanic</i>	Credit		Spring Semester <i>Aircraft Turbine Mechanic</i>	Credit
AERM 1241 Wood, Fabric & Finishes A course in the use & care of various covering materials, finishes, & wood structures including approved methods and procedures.	2		AERM 1351 Aircraft Turbine Engine Theory Theory, history & servicing of turbine engines.	3
AERM 1352 Aircraft Sheet Metal A course in inspection & repair of sheet metal structures.	3		AERM 2351 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 Level I Certificate of Completion Aircraft Structures Mechanic	11		Year 2 Total Level I Certificate of Completion Aircraft Turbine Mechanic	12

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

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Level I Certificate of Completion
Aircraft Structures Mechanic

ASSOCIATE OF APPLIED SCIENCES

Aircraft Technician Airframe

Courses in blue articulate into associates of applied science degree.(AAS)

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 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

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 of applied science degree.(AAS)

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