



## Aerospace Academy

1st Year Program of Studies 8 courses with total of 21 credit hours		2nd Year Program of Studies 4 courses with total of 11 or 12 credit hours	
<b>Fall Semester</b>	<b>Credit</b>	<b>Fall Semester</b>	<b>Credit</b>
AERM 1201 Introduction to Aviation* <i>*10-hr OSHA An overview of aviation maintenance.</i>	2	AERM 1414 Basic Electricity <i>A study of aircraft electrical systems and their requirements.</i>	4
AERM 1315 Aviation Science <i>Fundamentals of mathematics, physics &amp; drawing as they apply to aircraft principles &amp; operations.</i>	3	AERM 1254 Aircraft Composite <i>A study of the inspection &amp; repair of composite, Fiberglass, honeycomb, and laminated structural materials.</i>	2
AERM 1303 Shop Practice <i>Introduction to the correct use of hand tools and equipment &amp; precision measurement; identification of aircraft hardware; &amp; fabrication of fluid lines and tubing.</i>	3		
<b>Fall Semester Total</b>	<b>8</b>	<b>Fall Semester Total</b>	<b>6</b>
<b>Spring Semester</b>	<b>Credit</b>	<b>Spring Semester</b>	<b>Credit</b>
AERM 1208 Federal Aviation Regulations <i>A course in the use &amp; understanding of the FAA &amp; aircraft manufacturer's publications, forms &amp; records.</i>	2	<b>Aircraft Structures Mechanic</b>	
AERM 1205 Weight & Balance <i>An introduction to FAA required subjects relating to weighing of aircraft, performance of weight &amp; balance calculations, &amp; appropriate maintenance of record entries.</i>	2	AERM 1241 Wood, Fabric & Finishes <i>A course in the use &amp; care of various covering materials, finishes, &amp; wood structures including approved methods and procedures.</i>	2
AERM 1310 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	AERM 1352 Aircraft Sheet Metal <i>A course in inspection &amp; repair of sheet metal structures.</i>	3
POFT 1220 Job Search Skills <i>A course to provide students with necessary skills to seek &amp; obtain employment in business &amp; industry.</i>	2	<b>Spring Semester Total</b>	<b>5</b>
<b>Spring Semester Total</b>	<b>9</b>	<b>Year 2 Program Total</b>	<b>11</b>
<b>Summer Semester</b>	<b>Credit</b>	<b>Or</b>	
AERM 2486 Internship: Aircraft Mechanics & Aircraft Maintenance Technology/Technician <i>Practical, general workplace training supported by an individualized learning plan.</i>	4	<b>Aircraft Turbine Mechanic</b>	
<b>Summer Total</b>	<b>4</b>	AERM 1351 Aircraft Turbine Engine Theory <i>Theory, history &amp; servicing of turbine engines.</i>	3
<b>Year 1 Program Total</b>	<b>21</b>	AERM 2351 Aircraft Turbine Engine Overhaul <i>Topics address inspection, disassembly, re-assembly &amp; replacement of gas turbine engines, sections, &amp; components as well as operational troubleshooting &amp; analysis.</i>	3
		<b>Spring Semester Total</b>	<b>6</b>
		<b>Year 2 Program Total</b>	<b>12</b>
<b>Occupational Skills Award Aircraft Technology (OSA) (5 courses, 13 hours)</b>		<b>Level I Certificate of Completion Aircraft Structures or Aircraft Turbine Mechanic</b>	

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

