

**PROGRAM DESCRIPTION:
ASSOCIATE OF APPLIED SCIENCE
AIRFRAME TECHNOLOGY AND POWERPLANT TECHNOLOGY**

The courses in the combined Associate of Applied Science in Airframe Technology and Powerplant Technology Program are designed to provide the necessary educational opportunities through classroom and laboratory teaching for a person to acquire the skills and knowledge needed to enter the industry as an entry-level Airframe and Powerplant (A&P) Technician. Graduates will be eligible to take the Federal Aviation Administration examinations. Upon successful completion of the written exams, the graduate will be eligible to take the oral and practical examinations to complete the requirements for the FAA (A&P) Certificate, the technician may enter a number of employment areas, such as general aviation, fixed-base operations, executive aircraft services, major airlines, aircraft contractors, modification operations, and manufacturers as A&P technicians or technical writers. The combined Associate of Applied Science degree in Airframe Technology and Powerplant Technology consists of 101 credit hours, 2110 contact hours, and is 60 weeks in length (Day).

First Semester

Semester Hours

<u>Course #</u>	<u>Course Title</u>	<u>Lecture</u>	<u>Lab</u>	<u>Total Contact</u>	<u>Credit</u>
GS 100	Forms and Regulations	49	0	49	3
GS 101	Materials and Processes	24	25	49	2
GS 102	Ground Operation/Service; Cleaning/Corrosion Control	21	21	42	2
PSYC 2301	General Psychology	48	0	48	3
ENGL 1301	Composition I	48	0	48	3
ENGL 1302	Composition II	48	0	48	3
MATH 1310	College Mathematics	48	0	48	3
MATH 1314	College Algebra	48	0	48	3
GS 106	Aircraft Drawings	10	11	21	1
GS 107	Fluid Lines and Fittings	10	11	21	1
GS 103.1	Aviation Physics	30	12	42	2
GS 104.1	Basic Electricity	36	34	70	3
GS 105	Weight and Balance	14	14	28	1
Totals		434	128	562	30

Second Semester

PP 100	Reciprocating Engines I	45	39	84	4
PP 101.1	Reciprocating Engine Systems I	45	11	56	3
PP 101.2	Reciprocating Engine Systems II	32	31	63	3
PP 103.1	Reciprocating Engine Ignition and Starting Systems	30	5	35	2
PP 102	Reciprocating Engines II: Troubleshooting	21	21	42	2
PP 106	Propellers	35	35	70	3
PP 104	Engine Electrical Systems	35	35	70	3
PP 105	Engine Instrument Systems	20	15	35	1
PP 107.1	Turbine Engines I	40	16	56	3
PP 107.2	Turbine Engines II	15	34	49	2
PP 108	Turbine Engine Systems	45	32	77	4
PP 103.2	Turbine Engine Ignition and Starting Systems	10	11	21	1
PP 109	Engine Fire Protection Systems	10	11	21	1
PP 110	Engine Inspections	10	11	21	1
PP 111	Powerplant Repair and Operational Checks	45	11	56	3
Totals		438	318	756	36

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Third Semester

AF 109	Assembly and Rigging	48	21	69	3
AF 108	Welding	15	0	15	1
AF 100	Aircraft Electrical Systems	31	32	63	3
AF 101	Aircraft Instrument Systems	15	13	28	1
AF 102	Communication and Navigation Systems	19	15	34	1
AF 103.1	Ice and Rain Control Systems	15	0	15	1
AF 105.1	Sheet Metal Structures I	45	32	77	4
AF 105.2	Sheet Metal Structures II	30	33	63	3
AF 107	Wood/Non-Metallic Structures and Aircraft Coverings	32	45	77	3
AF 106	Aircraft Finishes	21	21	42	2
AF 112	Airframe Fuel Systems	10	11	21	1
AF 110	Hydraulic and Pneumatic Systems	30	26	56	2
AF 111	Aircraft Landing Gear Systems	30	19	49	2
AF 113	Position and Warning Systems	15	5	20	1
AF 103.2	Fire Protection Systems	15	0	15	1
AF 103.3	Cabin Atmospheric Control Systems	21	14	35	1
AF 114	Airframe Inspection	21	21	42	2
AF 115	Airframe Repair and Operational Checks	17	12	29	1
NDT 101	Non-Destructive Testing	32	10	42	2
	Totals	462	330	792	35
	Grand Totals	1334	776	2110	101

*Students that complete the Associate of Applied Science degree Combined Airframe and Powerplant Technology program will be issued two separate degrees according to the Texas Higher Education Coordinating Board regulations: Associate of Applied Science degree in Airframe Technology and Associate of Applied Science degree in Powerplant Technology.