

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

The courses in the Associate of Applied Science in Powerplant Technology Degree 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 Powerplant 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 Powerplant Certificate. With the FAA Powerplant Certificate, the powerplant 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 powerplant technicians or technical writers. The Associate of Applied Science Degree in Powerplant Technology consists of 66 credit hours and 1318 contact hours, and is 40 weeks in length.

**First Semester**

<u>Course #</u>	<u>Course Title</u>	<b>Semester Hours</b>			
		<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 1314	College Algebra	48	0	48	3
MATH 2312	Pre-Calculus	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
<b>Totals</b>		<b>434</b>	<b>128</b>	<b>562</b>	<b>30</b>

**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
<b>Totals</b>		<b>438</b>	<b>318</b>	<b>756</b>	<b>36</b>
<b>Grand Totals</b>		<b>872</b>	<b>446</b>	<b>1318</b>	<b>66</b>