

19 Months Credits Required for Graduation: 76

Associate of Applied Science (A.A.S.) Degree

Credits Required for A.A.S. Degree: 92

2010 – 2011 Revised: 5/10

First Semester – Fall Semester

Course Number	Course Title	Clock Hours	Credits
AVM 100	FAR's Publications	42	1.5
AVM 103	Applied Mathematics/Aircraft Weight and Balance	70	2.5
AVM 106	Physics/Aerodynamics	42	1.5
AVM 109	Ground Operations and Servicing	28	1
AVM 112	Aircraft Drawings	42	1.5
AVM 115	Materials and Processes	56	2
AVM 118	Shop Practices and Safety	56	2
AVM 121	Basic Electricity	70	2.5
AVM 124	Welding and Tubular Structures	28	1
AVM 127	Corrosion Control and Cleaning	56	2
AVM 130	Assembly and Rigging	42	1.5
AVM 133	Airframe Fuels and Fuel Systems	28	1
Total		560	20

First Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
AVM 136	Non-Metallic/Composite Structures	84	3
AVM 139	Metallic Structures	84	3
AVM 142	Hydraulic and Pneumatic Power Systems/Lines and Fittings	56	2
AVM 145	Landing Gear Systems	56	2
AVM 148	Airframe Electrical Systems	84	3
AVM 151	Airframe Instrument Systems	28	1
AVM 154	Communication/Navigation Systems I	56	2
AVM 157	Utility Systems	70	2.5
AVM 160	Environmental Systems	42	1.5
AVM 163	Airframe Inspections	56	2
• CSC 100	Computer Concepts	16	1
Total		632	23

Summer Session

Course Number	Course Title	Clock Hours	Credits
AVM 200	Airframe Independent Study	42	1.5
Total		42	1.5

Second Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
AVM 203	Reciprocating Engine Theory	42	1.5
AVM 206	Reciprocating Engine Maintenance and Overhaul	84	3
AVM 209	Engine Removal and Installation	42	1.5
AVM 218	Lubricants and Lubrication Systems	56	2
AVM 221	Fuels and Fuel Metering Systems	56	2
AVM 227	Propeller and Rotor Systems	70	2.5
AVM 230	Ignition and Starting Systems	70	2.5
AVM 233	Induction and Supercharger Systems	28	1
•• AC 100	Applied Communications	28	1
Total		476	17

Second Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
AVM 212	Gas Turbine Engine Technology	84	3
AVM 215	Gas Turbine Engine Service and Maintenance	84	3
AVM 224	Fire Protection Systems	14	.5
AVM 236	Powerplant Electrical Systems	84	3
AVM 239	Cooling Systems	14	.5
AVM 242	Exhaust and Thrust Reverser Systems	14	.5
AVM 245	Powerplant Instrument Systems	28	1
AVM 248	Powerplant Inspections	42	1.5
AVM 254	Power Plant Independent Study	42	1.5
Total		406	14.5

- CIS 105 – Microcomputer Software Applications or CIS 102 – Windows Applications for Technicians may be substituted for CSC 100 to facilitate progress toward the associate degree.
- EN 110 – Business Communications or ENGL 101 – Composition may be substituted for AC 100 to facilitate progress toward the associate degree.

To fulfill requirements for the A.A.S. degree, students must select a course in each of the four areas plus two additional general education courses, thus completing 18 credits in general education. CIS 105 or CIS 102 may be used as one of the additional courses. Courses marked with an asterisk can be transferred directly to the university system under the terms of articulation agreements and may be substituted for recommended courses on the outline.

Behavioral Science

[PSYC 100](#) – Psychology of Human Relations
[PSYC 101](#) – General Psychology *

Mathematics

[MATH 100](#) – Applied General Math
[MATH 101](#) – Intermediate Algebra
[MATH 102](#) – College Algebra *

Communications

[COMM 101](#) – Contemporary Communication
[EN 110](#) – Business Communications
[ENGL 101](#) – Composition *
[SPCM 101](#) – Fundamentals of Speech *

Social Science

[ECON 101](#) – Economic Geography
[ECON 201](#) – Principles of Microeconomics I *
[ECON 202](#) – Principles of Macroeconomics II *
[SOC 100](#) – Introduction to Sociology *