

### Fourth Semester – Fall

ACM 170	Aircraft Electrical Systems	4
ACM 172	Aircraft Fuel Systems	1
ACM 174	Airframe Inspection	1
ACM 201	Lubricating Systems	2
ACM 205	Ignition and Starting Systems	3
ACM 245	Powerplant Fuel Systems	4
MAT 155	Contemporary Mathematics	3

**Total 18**

### Fifth Semester – Spring

ACM 220	Turbine Engines	3
ACM 234	Propellers and Components	4
ACM 240	Engine Electrical Instrumentation and Fire Protection	3
ACM 250	Induction Cooling and Exhaust	3
PSY 201	General Psychology	3

**Total 16**

### Sixth Semester – Summer

ACM 210	Reciprocating Engine Overhaul	4
ACM 212	Engine Installation	3
ACM 226	Engine Inspection	1
ENG 101	English Composition I	3

**Total 11**

## Aircraft Assembly Technology

### Certificate in Applied Science

#### Credit Requirements: 26 Semester Credit Hours

This program prepares students for employment in the aviation manufacturing field by providing instruction in the basic theory of aircraft design and construction, aircraft materials, and tools utilized in aircraft assembly.

Admission into this program requires qualifying scores on SAT, ACT or the TTC placement test. High school graduation is not required if you are at least 18 years old.

#### Recommended Sequence of Courses

##### First Semester

AMF 103	Introduction to Aviation	3
AMF 104	Basic Aviation Sciences	3
AMF 109	Aircraft Materials and Hand Tools	3
AMF 110	Corrosion Control and Sealing Applications	2
AMF 116	Aircraft Fluid Lines	2

**Total 13**

### Second Semester

AMF 132	Aircraft Sheet Metal Assembly	3
AMF 137	Aircraft Composite Structures	3
AMF 142	Aircraft Auxiliary Systems	2
AMF 147	Aviation Electrical Systems	3
AMF 152	Aircraft Flight Control Systems	2

**Total 13**

## Aircraft Maintenance Airframe

### Certificate in Applied Science

#### Credit Requirements: 29 Semester Credit Hours

This certificate, along with the General and Powerplant certificates, prepares the student to sit for the certification exams required by the Federal Aviation Administration to become certified airframe and powerplant maintenance technicians. Students are prepared for employment repairing aircraft, engines and related systems with airlines, government agencies, aircraft manufacturers and aircraft service companies.

For admission into this program the student must be a high school graduate or possess a GED and take TTC's placement test or meet the College's SAT or ACT requirements.

#### Recommended Sequence of Courses

##### First Semester – Spring

ACM 125	Wood Structures, Coverings and Finishes	2
ACM 135	Sheet Metal and Non-metallic Structures	4
ACM 145	Aircraft Welding	2
ACM 165	Hydraulic and Pneumatic Systems	3

**Total 11**

##### Second Semester – Summer

ACM 150	Assembly and Rigging	3
ACM 155	Aircraft Environmental Systems	3
ACM 160	Utility and Warning Systems	3
ACM 167	Landing Gear Systems	3

**Total 12**

##### Third Semester – Fall

ACM 170	Aircraft Electrical Systems	4
ACM 172	Aircraft Fuel Systems	1
ACM 174	Airframe Inspection	1

**Total 6**