

Second Semester – Spring

AVT 120	Aviation Electronic Communications	4
AVT 125	Aviation Data Communications	3
AVT 140	Avionics Standard Practices	3
AVT 145	Avionics Circuit Repair	3
Total 13		

Third Semester – Summer

AVT 150	Aircraft Navigation Systems	3
AVT 155	Aircraft Pulse Systems	3
AVT 160	Aircraft Radar Systems	3
AVT 165	Avionics General Regulations	2
AVT 170	Avionics Program and Test Review	1
Total 12		

Fourth Semester – Fall

*ACM 101	General Regulations	2
*ACM 102	Aviation Sciences	3
*ACM 110	Aircraft Drawings	1
*ACM 115	Ground Handling and Servicing	3
*ACM 120	Materials and Corrosion Control	4
Total 13		

Fifth Semester – Spring

CPT 101	Introduction to Computers	3
ENG 101	English Composition I	3
REQ HUM	Select one course from Humanities listing on page B-3	3
REQ MAT	Select one math course from Mathematics/Natural Sciences listing on page B-4	3
REQ SSC	Select one course from Behavioral/Social Sciences listing on page B-4	3
Total 15		

**These courses may be substituted as a group for a different technical subject area of at least 12 semester credit hours, which must be approved by your advisor.*

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		

Aeronautical Studies

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

Aircraft Maintenance General

Certificate in Applied Science

Credit Requirements: 18 Semester Credit Hours

This certificate, along with the Airframe 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 – Fall

ACM 101	General Regulations	2
ACM 102	Aviation Sciences	3
ACM 105	Basic Aircraft Electricity	4
ACM 110	Aircraft Drawings	1
ACM 115	Ground Handling and Servicing	3
ACM 120	Materials and Corrosion Control	4

Total 17

Second Semester – Spring

ACM 114	Fluid Lines and Fittings	1
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Total 1

Aircraft Maintenance Powerplant

Certificate in Applied Science

Credit Requirements: 30 Semester Credit Hours

This certificate, along with the General and Airframe 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 – Fall

ACM 201	Lubricating Systems	2
ACM 205	Ignition and Starting Systems	3
ACM 245	Powerplant Fuel Systems	4

Total 9

Second 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

Total 13

Third Semester – Summer

ACM 210	Reciprocating Engine Overhaul	4
ACM 212	Engine Installation	3
ACM 226	Engine Inspection	1

Total 8

Avionics Maintenance Technology

Certificate: Industrial Technology

Credit Requirements: 40 Semester Credit Hours

In this program students will gain a valuable mix of theory and practical hands-on learning experiences related to avionics. The program culminates with on-site Federal Communications Commission (FCC) General Radiotelephone Operator's License (GROL) elements 1, 3 and 8