

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
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

licensing preparation and operational testing. In addition, the program will prepare students for the National Center for Aerospace and Transportation Technologies (NCATT) Aircraft Electronics Technician (AET) certification.

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**

AVT 101	Basic Electricity for Avionics	4
AVT 105	Aircraft Electricity for Avionics	4
AVT 110	Aircraft Electronic Circuits	4
AVT 115	Aircraft Digital Circuits	3

Total 15**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