

## Maintenance Option Courses

### First Quarter

		Credits
ENG 111	English Composition I	3
ETD 198	Personal Computer Applications in Engineering Technology	2
MAT 116	College Algebra	
<i>or</i>		
MAT 131	Technical Mathematics I	5
AVT 115	Ground Operations & Servicing	3
AVT 112	Performance Calculations	2
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	Total	15

### Second Quarter

		Credits
AVT 111	Navigation Science I	3
MAT 117	Trigonometry	4
<i>or</i>		
MAT 132	Technical Mathematics II	5
AVT 105	Orientation to Aviation	3
AVT 117	Fluid Lines & Fittings	3
AVT 245	Aviation Law	3
HUM ___	Humanities Elective	3
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	Total	19/20

### Third Quarter

		Credits
ENG 112	English Composition II	3
PHY 141	College Physics I	4
<i>or</i>		
PHY 131	Technical Physics I	4
AVT 229	Aircraft Finishes	3
AVT 238	Aircraft Avionics	3
AVT 119	Aviation Meteorology	3
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	Total	16

### Fourth Quarter

		Credits
AVT 218	Landing Gear	4
AVT 237	Airframe Inspections	2
AVT 206	Aerodynamics	3
AVT 247	Flight Controls	3
AVT 217	Hydraulics & Pneumatics Systems	3
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	Total	15

### Fifth Quarter

		Credits
AVT 234	Reciprocating Engines III	3
AVT 242	Aircraft Accident Investigation	3
AVT 219	Turbine Engines	4
AVT 240	Human Factors in Aviation	3
AVT 125	Developments in Aviation	3
SOC ___	Social Science Elective	3
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	Total	19

### Sixth Quarter

		Credits
COM 206	Interpersonal Communication	3
AVT 129	Propellers	5
AVT 138	Engine Fuel & Fuel Metering	5
AVT 205	Aviation Management	3
AVT 270	Aviation Internship	1-12
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	Total	17-28

**Sinclair Community College is an FAA  
certified Aviation Maintenance Technician  
School: Air Agency Certificate # XSCT086K.**



Sinclair  
Community  
College

# Aviation Maintenance

*Start a Professional  
Aviation Career Now!*

## **Aviation Technology Maintenance Option**

Graduates of the Associate of Applied Science in Aviation Technology, Maintenance Option program will be able to

- apply aeronautical knowledge to analyze aviation technology issues, determine solutions, and assess feasibility
- present technical findings and results using industry approved publication guidelines and presentation methods
- interpret and apply the FAA regulations and manufacturer's maintenance procedures to assure aircraft airworthiness
- derive required airframe inspection criteria from manufacturer's aircraft airframe maintenance publications
- inspect and maintain aircraft powerplants

***Upon completion, interview opportunities are available through Sinclair's industry affiliates.***

## **Career Options**



**Powerplant** mechanics may work on the engine (powerplant) of many types of aircraft, such as jets, propeller-driven airplanes, and helicopters; or, powerplant mechanics may specialize in one system of a particular type of aircraft, such as engine, engine-driven hydraulic pumps, or electrical system connections.

## **Certificate Programs**

### **Aviation General Maintenance**

The Aviation Technology's Aviation General Maintenance Certificate is required along with the Airframe or the Powerplant certificates in order to qualify to take the FAA certification.

### **Aviation Airframe**

The Aviation Technology's Aviation Airframe Certificate program covers skills used to maintain the Airframes airworthiness of the aircraft.

### **Aviation Powerplant**

Aviation Technology's Aviation Powerplant Certificate program covers skills used to maintain turbine and reciprocating engines, and associated systems.

***Certificate credits can be applied toward an Associate of Applied Science in Aviation Technology degree.***



**Airframe** mechanics may work on the body (airframe) of many types of aircraft, such as jets, propeller-driven airplanes, and helicopters; or, airframe mechanics may specialize in one system of a particular type of aircraft, such as the hydraulic system or electrical system.

### **Possible job titles include:**

- \* Aircraft Maintenance Technician
- \* Field Service Representative
- \* Director of Aviation Maintenance
- \* Emergency Aircraft Recovery
- \* Aircraft Modification Manager

**For more information  
(937) 512-2242 or [www.sinclair.edu](http://www.sinclair.edu)**