

AVIATION MAINTENANCE TECHNOLOGY

PROGRAM DESCRIPTION:

This program provides coursework needed for the Associate in Science degree major in Aviation Maintenance Airframe and/or Powerplant Technology and is intended for those students who wish to transfer to a four-year institution. The program also meets requirements for the Federal Aviation Administration (FAA) Airframe and Powerplant Certificates. Airframe and Powerplant technicians are in demand by airlines and aviation maintenance providers. The Aviation Maintenance Technology program at Chaffey College is fully approved by the FAA to provide the experience required to become an Airframe or Powerplant technician.

CAREER AT A GLANCE:

HOW DO I KNOW IF THIS MAJOR IS FOR ME?

- You enjoy using numbers and basic arithmetic
- You like to think critically
- You enjoy details and working with your hands
- You like to troubleshoot causes of operation errors
- You enjoy working with others
- You like operating equipment
- You like to problem solve and repair
- You like to compile data and keep records

Use Focus2Career on your MyChaffey portal to learn more about careers and majors that fit you best.

WHERE CAN I WORK?

Airlines	Shipping Companies
Railroad Companies	Freight Companies
Bus Companies	Military
Federal/State Government	

For more information visit: www.labormarketinfo.edd.ca.gov/OccGuides

HOW DO I GET STARTED?

- Contact the AMT Department for more information or email: shawn.ward@chaffey.edu
- Apply for entry level positions in customer service with employers where you would like to promote
- Job shadow and network with aviation professionals
- Update resume with technical skills and classroom experiences

WHAT CAN I DO WITH THIS CERTIFICATE AND/OR ASSOCIATE DEGREE?

<i>Position Title</i>	<i>CA Median Salary</i>
Airframe Technician	\$67,750
Powerplant Technician	\$67,750
Air Traffic Controller	\$140,870
Aircraft Dispatch	\$140,870
Airline Ground Crew	\$50,110
Avionics Technician	\$67,750
Aircraft Mechanic	\$67,750
Industrial Mechanic	\$56,270
Electrical Technician	\$79,780
Aircraft Inspector	\$71,300
Aircraft Electrical Systems Specialist	\$79,780
Helicopter Mechanic	\$67,750
Powerplant Operator	\$96,130

WHAT CAN I DO WITH HIGHER EDUCATION AND ADDITIONAL TRAINING?

<i>Position Title</i>	<i>CA Median Salary</i>
Pilot	\$198,370
Commercial Pilot	\$80,310
Aerospace Engineer	\$119,930
Flight Engineer	\$198,370
Industrial Engineer	\$101,420
Mechanical Engineer	\$98,260
Airport Manager	\$93,780
Transportation Manager	\$93,780

For more information about careers, education and training requirements, salary data, and job outlooks visit

www.onetonline.org

For additional information about career pathways and to find out if this major is a good fit for you visit the Career Center located in MACC 203. Career information was collected from www.onetonline.org and www.bls.gov.

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MAJOR AND COURSE REQUIREMENTS:

LEGEND: G=Grade IP=In Progress N=Need **Bold:** Prerequisites Plain Text: No Prerequisites

Major Requirements for the Associate in Science Degree:

		Grade	IP	Need	Units
AMT 15	Introduction to Aviation Maintenance for Airframe and Powerplant				14
AMT 16A	Aviation Materials, Processes, Inspections & Regulations				1
AMT 16B	Aviation Science				1

Student Name: _____

ID#: _____

Date: _____

Counselor: _____

Plus completion of one of the following emphases:
Airframe: (S011)

		Grade	IP	Need	Units
Core Requirements, plus:					16
AMT 35	Airframe Structures: Fabrication, Inspection and Repair				7
AMT 36	Airframe Primary Systems				7
AMT 37	Airframe Secondary Systems				7
AMT 38A	Airframe Structure: Structure Fabrication				1
AMT 38B	Airframe Structure: Hydraulic Systems				1
AMT 38C	Airframe Structure: Aircraft Secondary Systems and Components				1

Requirements for the Airframe Certificate: (L011)

Same as the major requirements for the Airframe A.S. Degree (core + emphasis)

Powerplant: (S012)

		Grade	IP	Need	Units
Core Requirements, plus:					16
AMT 25	Powerplant: Aircraft Reciprocating Engines				7
AMT 26	Powerplant: Engine Instrumentation, Lubrication, Electrical				7
AMT 27	Powerplant: Reciprocating Engine Fuel & Auxiliary Systems				7
AMT 28A	Powerplant: Reciprocating Engine Inspection				1
AMT 28B	Powerplant: Electrical Systems				1
AMT 28C	Powerplant: Turbine Engine Auxiliary Systems				1

Requirements for the Powerplant Certificate: (L012)

Same as the major requirements for the Powerplant A.S. Degree (core + emphasis)

Requirements for the Aviation Maintenance Certificate: (F010)

Same as the major requirements for the A.S. Degree plus all the Airframe and Powerplant courses

COUNSELOR NOTES:

\$46 per unit for CA Residents

AVIATION MAINTENANCE TECHNOLOGY

This certificate is a skills building certificate in the field of Aviation Electronics and Avionics Technology. It builds upon the skills and knowledge of the general aviation and Airframe programs of study. This certificate covers the theory, inspection, repair and the diagnosis of modern aircraft electrical/avionics systems. Emphasis placed on electrical wiring interface system (EWIS), communication, navigation and data transmission systems used on general and commercial aviation, drones, and unmanned aerial vehicles (UAVs). This certificate content provides the knowledge to pass the NCATT (National Center for Aerospace and Transportation Technologies) AET (Aircraft Electronics Technician) test and receive the AET certification. The NCATT curriculum is the recognized leading standard in this area. An FAA Airframe Certificate would serve in lieu of AMT 15-38C requirements for this certificate.

<i>Requirements for the Aircraft Electrical and Avionics Technician Certificate: (T013)</i>		Grade	IP	Need	Units
AMT 15	Introduction to Aviation Maintenance for Airframe and Powerplant				14
AMT 16A	Aviation Materials, Processes, Inspections & Regulations				1
AMT 16B	Aviation Science				1
AMT 35	Airframe Structures: Fabrication, Inspection, and Repair				7
AMT 36	Airframe Primary Systems				7
AMT 37	Airframe Secondary Systems				7
AMT 38A	Airframe Structure: Structure Fabrication				1
AMT 38B	Airframe Structure: Hydraulic Systems				1
AMT 38C	Airframe Structure: Aircraft Secondary Systems and Components				1
AMT 400	Aircraft Electrical and Avionics Theory, Repair, and Troubleshooting				5