AVIATION MAINTENANCE

College of Rural and Community Development Community and Technical College 907-455-2809

www.ctc.uaf.edu/programs/amt/

Certificate; A.A.S. Degree

Minimum Requirements for Certificate: 31-49 credits; for Degree: 64 credits

Aviation maintenance offers an A.A.S. degree and certificates in three areas: airframe, powerplant, or airframe and powerplant.

Students who receive a certificate in airframe and powerplant may elect to complete the A.A.S. degree in aviation maintenance to enhance their employability.

Students in the airframe and powerplant certificate program may complete requirements for the Federal Aviation Administration mechanic's certificate with both airframe and powerplant ratings in as little as one year. The aviation maintenance program covers many subject areas, but it places special emphasis on those skills most sought after in the Alaska job market. Through classroom and hands-on laboratory instruction, this intensive curriculum prepares students for entry into the aviation field. Graduates who pass the FAA examinations for the airframe and powerplant ratings are qualified for entry-level positions in the maintenance, repair, overhaul and modification of aircraft.

Students interested in qualifying for an FAA airframe mechanic's certificate may choose to earn only the airframe certificate, and those who wish to qualify for an FAA powerplant mechanic's certificate may choose to earn only the powerplant certificate.

Admission to the airframe and powerplant programs is at the discretion of the program faculty and requires an interview with the faculty advisor. The program normally starts around the beginning of September of each year. Applicants may start at other times if they meet experience and educational qualifications that meet departmental approval.

Airframe and Powerplant — Certificate Program

- 1. Complete the general university requirements (page 101).
- Complete the certificate requirements. (See page 101. As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.)

Complete the following airframe structures require	rements:
AFPM F261—Nonmetallic Structures	1
AFPM F262—Aircraft Coverings	1
AFPM F263—Aircraft Finishes	0.5
AFPM F264—Sheet Metal Structures	3
AFPM F265—Aircraft Welding	1.5
AFPM F266—Assembly and Rigging	
AFPM F267—Airframe Inspections	
AFPM F270—Airframe Testing	
e	

5.	Complete the following airframe systems and components requirements: AFPM F230—Aircraft Electrical Systems
6.	Complete the following powerplant theory and maintenance requirements: AFPM F235—Aircraft Reciprocating Engines
7.	Complete the following powerplant systems and components requirements: AFPM F231—Powerplant Electrical Systems
8.	Complete the following combined systems and components requirements: AFPM F251—Fuel Systems

Airframe — Certificate Program

- 1. Complete the general university requirements (page 102).
- Complete the certificate requirements. (See page 102. As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.)

9. Minimum credits required49



6.	Complete the following combined systems and components	5.	Complete the following powerplant and systems components requirements:
	requirements:		
	AFPM F251—Fuel Systems		AFPM F231—Powerplant Electrical Systems
	AFPM F255—Fire Protection Systems		,
	AFPM F257—Instrument Systems		AFPM F245—Ignition Systems 2
7.	Minimum credits required31		AFPM F246—Fuel Metering Systems
Po	werplant — Certificate Program		AFPM F248—Induction Systems
1.	Complete the general university requirements (page 102).		AFPM F250—Powerplant Exhaust Systems0.5
,			AFPM F252—Propellers2
۷.	Complete the certificate requirements. (See page 102. As part of the certificate requirements, the communication, computation and human	6.	Complete the following combined systems and components requirements:
	relations content is embedded in the major required courses for this		AFPM F251—Fuel Systems
]	program.)		AFPM F255—Fire Protection Systems0.5
3.	Complete the following general requirements:		AFPM F257—Instrument Systems
	AFPM F145—Basic Mathematics1	_	·
	AFPM F146—Basic Electricity2	7.	Minimum credits required
	AFPM F147—Physics for Mechanics	INO	te: This is a one-year program, usually starting at the beginning of September. Entry at other times is allowed only with departmental approval. A personal
	AFPM F148—Aircraft Drawing1		background check and drug test will be required prior to acceptance into the
	AFPM F149—Fluid Lines and Fitting0.5		airframe and powerplant, airframe or powerplant certificate programs.
	AFPM F150—Materials and Processes2		
	AFPM F151—Cleaning and Corrosion Control1	Av	riation Maintenance — A.A.S. Degree
	AFPM F152—Federal Aviation Regulations1	1.	Complete the general university requirements (page 102).
	AFPM F153—Weight and Balance1 AFPM F154—Ground Operations and Servicing0.5	2.	Complete the A.A.S. degree requirements (page 102).
4		3.	Complete the requirements for the airframe and powerplant certifications.
ŧ.	Complete the following powerplant theory and maintenance requirements:		49
	AFPM F235—Aircraft Reciprocating Engines	4.	Minimum credits required64
	AFPM F240—Turbine Engines2	*	Students must earn a Ĉ- grade or better in each course.
	AFPM F271—Powerplant Inspections		
	AFPM F272—Powerplant Testing0.5		