

Undergraduate Certificate in Aviation Maintenance Technology, Powerplant

The Undergraduate Certificate in Aviation Maintenance Technology (AMT), Powerplant, is designed to prepare graduates for employment as maintenance technicians in general aviation, corporate aviation, airlines or aerospace manufacturers. In addition to traditional aircraft maintenance courses, the curriculum emphasizes modern aircraft systems.

Admission Requirements

- Complete the Admission Requirements for Undergraduate Certificate Programs (<http://catalog.uaa.alaska.edu/academicpoliciesprocesses/admissions/undergraduate/>).
- Apply for admission to the AMT Powerplant program by contacting the Aviation Technology Division (ATD) at 2811 Merrill Field Drive in Anchorage, calling (907) 786-7200 or visiting www.uaa.alaska.edu/aviation (<http://www.uaa.alaska.edu/aviation/>).
- Present evidence of proficiency in mathematics at or exceeding the MATH A104 level. An appropriate score on a math placement test may be used.
- Demonstrate English language proficiency through placement into WRTG A110 or a higher level with an appropriate level on ACT English scores, SAT Verbal scores, or an English placement exam. Generally, applicants eligible for entry into WRTG A110 level have sufficient proficiency for entry into the AMT programs.

Graduation Requirements

- Complete the General University Requirements for Undergraduate Certificates (<http://catalog.uaa.alaska.edu/undergraduateprograms/certificaterequirements/>).
- Complete the following major requirements:

Code	Title	Credits
AMT A170	Aircraft Ground Operations and Safety	1
AMT A171	Basic Aerodynamics	2
AMT A172	Aircraft Publications, Regulations, and Records	2
AMT A174 & A174L	Fundamentals of Aircraft Electronics and Fundamentals of Aircraft Electronics Lab	4
AMT A175	Drawing and Precision Measurement	1
AMT A176	Aircraft Materials and Processes I	2
AMT A177	Aircraft Powerplant Theory	3

AMT A181 & A181L	Aircraft Fuel Systems and Aircraft Fuel Systems Lab	4
AMT A184 & A184L	Aircraft Electrical Machinery and Aircraft Electrical Machinery Lab	3
AMT A186	Aircraft Non-Destructive Inspection Methods	2
AMT A187 & A187L	Aircraft Powerplant Repair and Overhaul and Aircraft Reciprocating Engine Overhaul Lab	5
AMT A274 & A274L	Aircraft Electronic Systems and Instruments and Aircraft Electronic Systems and Instruments Lab	5
AMT A279L	Aircraft Turbine Engine Repair and Overhaul Lab	1
AMT A282	Aircraft Propeller Systems	1
AMT A287 & A287L	Aircraft Powerplant Installation and Operation and Aircraft Powerplant Installation and Operation Lab	5
Total		41

A minimum of 41 credits is required for the certificate.

Program Student Learning Outcomes

Students graduating with an Undergraduate Certificate in Aviation Maintenance Technology, Powerplant will be able to:

- Demonstrate proficiency in general aircraft maintenance skills.
- Demonstrate proficiency in the required powerplant maintenance skills.
- Demonstrate knowledge of aircraft powerplants, systems and appropriate FAA regulations.
- Demonstrate knowledge of industry information: current status, trends, segments and opportunities.