

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 |

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| 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.