Associate of Applied Science in Aviation Maintenance Technology

The Associate of Applied Science (AAS) in Aviation Maintenance Technology (AMT) 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.

The AAS in Aviation Maintenance Technology prepares students for advancement beyond basic certification as maintenance technicians in general aviation, corporate aviation, airlines or aerospace manufacturing. The curriculum emphasizes critical thinking, problem solving, current aircraft technology and systems, as well as legacy aircraft.

The AAS in Aviation Maintenance Technology constitutes the first two years of the Bachelor of Science (BS) in Applied Technologies Leadership.

Admission Requirements

- Complete the Admission Requirements for Associate Degrees. (http://catalog.uaa.alaska.edu/academicpoliciesprocesses/admissions/undergraduate/)

Special Considerations

- Due to specific Federal Aviation Administration (FAA) requirements, the AAS AMT may not meet FAA certification eligibility until graduation. All students must meet with an Aviation Technology Division (ATD) academic advisor prior to beginning any AMT program of study and are to meet each semester for the purpose of reviewing their academic progress and planning future courses.
- Students are required to have their own basic hand tools for work in AMT lab classes.

Graduation Requirements

- Complete the General University Requirements for Associate Degrees (http://catalog.uaa.alaska.edu/undergraduateprograms/aasrequirements/).
- Complete the General Education Requirements for Associate of Applied Science Degrees (http://catalog.uaa.alaska.edu/undergraduateprograms/aasrequirements/generaleducationrequirements/).
- Complete the following major requirements:

Code	Title	Credits
Core Courses		
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 A181 & A181L	Aircraft Fuel Systems and Aircraft Fuel Systems Lab	4
AMT A186	Aircraft Non-Destructive Inspection Methods	2
AMT A274 & A274L	Aircraft Electronic Systems and Instruments and Aircraft Electronic Systems and Instruments Lab	5
Complete one of the following concentration areas:		**18-19**
Airframe Concentration		
AMT A185 & A185L	Aircraft Sheetmetal Structures and Aircraft Sheetmetal Structures Lab	
AMT A273 & A273L	Aircraft Fluid Power Systems and Aircraft Fluid Power Systems Lab	
AMT A283 & A283L	Aircraft Auxiliary and Avionics Systems and Aircraft Auxiliary and Avionics Systems Lab	
AMT A285 & A285L	Aircraft Bonded Structures and Aircraft Bonded Structures Lab	
AMT A286	Aircraft Materials and Processes II	
AMT A288 & A288L	Airframe Assembly and Inspections and Airframe Assembly and Inspections Lab	
Powerplant Concentration		
AMT A177	Aircraft Powerplant Theory	
AMT A184 & A184L	Aircraft Electrical Machinery and Aircraft Electrical Machinery Lab	
AMT A187 & A187L	Aircraft Powerplant Repair and Overhaul and Aircraft Reciprocating Engine Overhaul Lab	
AMT A279L	Aircraft Turbine Engine Repair and Overhaul Lab	

AMT A282	Aircraft Propeller Systems
AMT A287 & A287L	Aircraft Powerplant Installation and Operation and Aircraft Powerplant Installation and Operation Lab
Total	**41-42**

A minimum of 60 credits is required for the degree.

Program Student Learning Outcomes

Students graduating with an Associate of Applied Science in Aviation Maintenance Technology will be able to:

- Demonstrate proficiency in general aircraft maintenance skills.
- Demonstrate proficiency in emphasis area skills: airframe or powerplant.
- Demonstrate knowledge of aircraft engines, structures, and systems, as well as appropriate FAA regulations.
- Demonstrate knowledge of industry information: current status, segments and opportunities.
- Demonstrate critical thinking, problem solving, and communication skills.