Associate of Applied Science in Aviation Maintenance Technology

The Associate of Applied Science (AAS) in Aviation Maintenance Technology 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 FAA requirements, 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 of Applied Science 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/geducationrequirements/).
- Complete the following major requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AMT A170</td>
<td>Aircraft Ground Operations and Safety</td>
<td>1</td>
</tr>
<tr>
<td>AMT A171</td>
<td>Basic Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td>AMT A172</td>
<td>Aircraft Publications, Regulations and Records</td>
<td>3</td>
</tr>
<tr>
<td>AMT A175</td>
<td>Drawing and Precision Measurement</td>
<td>2</td>
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<tr>
<td>AMT A176</td>
<td>Aircraft Materials and Processes I</td>
<td>2</td>
</tr>
<tr>
<td>AMT A181 &amp; A181L</td>
<td>Aircraft Fuel Systems and Aircraft Fuel Systems Lab</td>
<td>4</td>
</tr>
<tr>
<td>AMT A186</td>
<td>Aircraft Non-Destructive Inspection Methods</td>
<td>3</td>
</tr>
<tr>
<td>AMT A272</td>
<td>Aircraft Electrical Hardware and Systems</td>
<td>3</td>
</tr>
<tr>
<td>AMT A274 &amp; A274L</td>
<td>Aircraft Electronic Systems and Aircraft Electronic Systems Lab</td>
<td>6</td>
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Complete one of the following concentration areas: 28

**Airframe Concentration**

- AMT A185 Aircraft Sheetmetal Structures
- AMT A185L Aircraft Sheetmetal Structures Lab
- AMT A273 Aircraft Fluid Power Systems
- AMT A273L Aircraft Fluid Power Systems Lab
- AMT A283 Aircraft Auxiliary Systems
- AMT A283L Aircraft Auxiliary Systems Lab
- AMT A285 Aircraft Bonded Structures
- AMT A285L Aircraft Bonded Structures Lab
- AMT A286 Aircraft Materials and Processes II
- AMT A364 Aircraft Avionics Systems
- AMT A369 Airframe Assembly and Inspections
- AMT A369L Airframe Assembly and Inspections Lab

**Powerplant Concentration**

- AMT A177 Reciprocating Engine Theory
- AMT A178 Turbine Engine Theory
- AMT A187 Aircraft Reciprocating Engine Overhaul
- AMT A187L Aircraft Reciprocating Engine Overhaul Lab
- AMT A279 Aircraft Turbine Engine Repair and Overhaul
- AMT A279L Aircraft Turbine Engine Repair and Overhaul Lab
- AMT A282 Aircraft Propeller Systems
- AMT A284 Aircraft Electrical Machinery
- AMT A284L Aircraft Electrical Machinery Lab
- AMT A287 Reciprocating Engine Installation and Operation
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AMT A287L</td>
<td>Reciprocating Engine Installation and Operation Lab</td>
</tr>
<tr>
<td>AMT A289</td>
<td>Turbine Engine Installation and Operation</td>
</tr>
<tr>
<td>AMT A289L</td>
<td>Turbine Engine Installation and Operation Lab</td>
</tr>
</tbody>
</table>

**Total** 60

A minimum of 72 credits is required for the degree.

**Program Student Learning Outcomes**

At the completion of this program, graduates will be able to:

- Demonstrate proficient, entry-level aviation 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.