Associate of Applied Science in Process Technology

This program is delivered only through Kenai Peninsula College.

The Associate of Applied Science (AAS) in Process Technology prepares students for entry-level employment as operations technicians in a variety of industries, including petroleum, mining, power generation, chemical manufacturing, renewable energy, and food processing.

Program coursework includes process equipment, basic instrumentation, operating systems, process facility operations, safety and environmental, plus hands-on operating experience.

The AAS in Process Technology is one of a small group of North American Process Technology Alliance (NAPTA) endorsed process technology programs nationwide.

The AAS in Process 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/)

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/generaleducationrequirements/).
- Complete the following major requirements with a minimum grade of C:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A103 &amp; A103L</td>
<td>Introduction to General Chemistry and Introduction to General Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CIS A105</td>
<td>Introduction to Personal Computers and Application Software</td>
<td>3</td>
</tr>
<tr>
<td>or CIS A110</td>
<td>Computer Concepts in Business</td>
<td></td>
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<tr>
<td>PHYS A115 &amp; A115L</td>
<td>Physical Science and Physical Science Lab</td>
<td>4</td>
</tr>
<tr>
<td>or PHYS A123 &amp; A123L</td>
<td>College Physics I and College Physics I Laboratory</td>
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Electives

Complete 9 credits of advisor-approved electives, which may include courses from:

- Electronics Technology (ET)
- Industrial Process Instrumentation (PETR, ET, PRT)
- Occupational Safety and Health (OSH)
- Process Technology (PRT)
- Technology Internship (TECH)

Total 48

A minimum of 60 credits is required for the degree.

Program Student Learning Outcomes

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

- Identify process technology industries.
- Identify federal and state agencies and regulations that impact process industries.
- Calculate various process equipment theory results.
- Explain various process instrumentation theories.
- Explain various process instrumentation and the uses of the instrumentation in control loops.
- Sketch accurate piping and instrument diagrams (P&IDs).
- Compose process procedures.
- Explain Outside Operator and Board Operator responsibilities and duties.
- Monitor a process, troubleshoot problems, and respond appropriately.
- Explain quality concepts, tools, and methods used in the process industries.