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/educationrequirements).
- 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>PRT A101</td>
<td>Introduction to Process Technology</td>
<td>3</td>
</tr>
<tr>
<td>PRT A110</td>
<td>Introduction to Process Safety, Health and Environmental Awareness</td>
<td>3</td>
</tr>
<tr>
<td>PRT A130</td>
<td>Process Technology I: Equipment</td>
<td>4</td>
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<tr>
<td>PRT A140</td>
<td>Industrial Process Instrumentation I</td>
<td>3</td>
</tr>
<tr>
<td>PRT A144</td>
<td>Industrial Process Instrumentation II</td>
<td>3</td>
</tr>
<tr>
<td>PRT A230</td>
<td>Process Technology II: Systems</td>
<td>4</td>
</tr>
<tr>
<td>PRT A231</td>
<td>Process Technology III: Operations</td>
<td>4</td>
</tr>
<tr>
<td>PRT A250</td>
<td>Process Troubleshooting</td>
<td>3</td>
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<tr>
<td>PRT A255</td>
<td>Quality Concepts for the Process Industry</td>
<td>1</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.