

# 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:

Code	Title	Credits
<b>Core Courses</b>		
BADA A105	Introduction to Personal Computers and Application Software	3
or BADA A110	Computer Concepts in Business	
CHEM A103 & A103L	Introduction to General Chemistry and Introduction to General Chemistry Laboratory	4
PHYS A115 & A115L	Physical Science and Physical Science Lab	4
or PHYS A123 & A123L	College Physics I and College Physics I Laboratory	

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

### 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.