

Undergraduate Certificate in Petroleum Technology

This program is delivered only through Kenai Peninsula College.

Admission Requirements

Complete the Application and Admission Requirements for Undergraduate Certificate Programs (<http://catalog.uaa.alaska.edu/academicpoliciesprocesses/admissions/undergraduate/>).

Advising

Advising for this program is available from the petroleum technology faculty at Kenai Peninsula College. Please call (907) 262-0330 or (877) 262-0330 for more information.

Graduation Requirements

- Complete the General University Requirements for Undergraduate Certificates (<http://catalog.uaa.alaska.edu/undergraduateprograms/certificaterequirements/>).
- Complete the program requirements below:

| Code | Title | Credits |
|--------------------------------------|---|-----------|
| WRTG A111 or WRTG A110 | Writing Across Contexts Introduction to College Writing | 3 |
| MATH A105 | Intermediate Algebra | 4 |
| PRT A101 | Introduction to Process Technology | 3 |
| PRT A130 | Process Technology I: Equipment | 4 |
| PRT A140 | Industrial Process Instrumentation I | 3 |
| PRT A144 | Industrial Process Instrumentation II | 3 |
| PRT A160 | Oil and Gas Exploration and Production I | 3 |
| PRT A230 | Process Technology II: Systems | 4 |
| PRT A231 or ET A101 or ET A126 | Process Technology III: Operations Basic Electronics: DC Circuits Digital Electronics | 4 |
| PRT A250 | Process Troubleshooting | 3 |
| Total | | 34 |

A total of 33 credits is required for the certificate.

Program Student Learning Outcomes

The graduates of the UAA Petroleum Technology program will have the ability to:

- Identify various 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.
- Identify various process instrumentation and the uses of the instrumentation in control loops.
- Sketch accurate piping and instrumentation diagrams (P&ID's).
- Develop and 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.