

The Program Educational Objectives of the B.S. Petroleum Engineering Program are:

- Our graduates will possess the technical knowledge and skills required to analyze real-world petroleum engineering problems, and develop innovative solutions that meet the needs of multiple stakeholders.
- Our graduates will recognize the value of continuing professional development throughout their career. This may take the form of advanced degrees, industry courses, and formal mentoring and coaching.
- Our graduates will compete effectively in the global petroleum engineering profession, and they will exhibit the behaviors necessary to become leaders in the Alaskan petroleum industry and beyond.

The Student Outcomes of the B.S. Petroleum Engineering Program are:

- an ability to apply knowledge of mathematics, science, and engineering
- an ability to design and conduct experiments, as well as to analyze and interpret data
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- an ability to function on multi-disciplinary teams
- an ability to identify, formulate, and solve engineering problems
- an understanding of professional and ethical responsibility
- an ability to communicate effectively
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- a recognition of the need for, and an ability to engage in lifelong learning
- a knowledge of contemporary issues
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- knowledge of northern issues