PETROLEUM ENGINEERING PROGRAM

Petroleum engineering is primarily concerned with the economic extraction of oil, gas and other natural resources from the earth. This is accomplished through the design, drilling and operation of wells and well systems, and the integrated management of the underground reservoirs in which the resources are found.

Program Mission
The mission of the Petroleum Engineering Program at Texas A&M at Qatar is to create, preserve, integrate, transfer and apply petroleum engineering knowledge, and to produce capable future engineers and enhance the capabilities of current practitioners. The curriculum includes study of:

- Design and analysis of well systems and procedures for drilling and completing wells.
- Characterization and evaluation of subsurface geological formations and their resources.
- Design and analysis of systems for producing, injecting and handling fluids.
- Application of reservoir engineering principles and practices for optimizing resource development and management.
- Use of project economics and resource valuation methods for design and decision making under conditions of risk and uncertainty.

There is a heavy emphasis on mathematics, computer applications, communication skills and interdisciplinary problem solving. The department encourages its students to work as interns during the summer months. A minimum of six weeks of approved experience is required for graduation.

Program Educational Objectives
The program educational objectives of the Petroleum Engineering Program are to produce graduates who will:

1. Have the technical depth and breadth to enable them to be effective professionals early in their career.
2. Have the knowledge together with relevant communication and interpersonal skills to position them for successful careers as practicing engineers and prospective leaders.

The undergraduate program in Petroleum Engineering at Texas A&M University is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Majors
- Bachelor of Science in Petroleum Engineering (http://catalog.tamu.edu/undergraduate/qatar/petroleum-engineering-program/petroleum-engineering-bs)

Minors
- Petroleum Engineering Minor (http://catalog.tamu.edu/undergraduate/engineering/petroleum/ minor)