

# NATURAL GAS PRODUCTION AND PROCESSING - MINOR

The contribution of natural gas toward global energy demand is more than 26% and Qatar has played a critical role in expanding its natural gas monetization plans to be the world's largest producer of liquefied natural gas (LNG). It's also home to the world's largest gas-to-liquid (GTL) technology plants, all of which make it the "World Capital of Natural Gas Processing Plants". Qatar has more than 135 years' worth of proven natural gas reserves as per the current reserves-to-production (R/P) rates. Due to this reason, Qatar's economy will continue to observe tremendous contributions from natural gas at least for the foreseeable future. More importantly, Qatar is unique in the way it monetizes its natural gas reserves even compared to Russia and the United States of America, who are the world's major exporter and producer of natural gas, respectively. Qatar must continue to be at the forefront of developing novel and innovative ways to monetize its natural gas resources to remain a leader in the natural gas industry. On the other hand, the United States is currently leading the world regarding its reserve and production of oil and gas.

This initiative aims at supporting the Faculty of Engineering vision by building a minor in a field of high importance to Qatar, the United States, and the world. This minor will educate students and prepare engineers highly specialized in the field of natural gas production, treatment, and processing.

## Program Requirements

Code	Title	Semester Credit Hours
CHEN 324	Chemical Engineering Mass Transfer Operations	3
ENGR 101	Energy: Resources, Utilization and Importance to Society	4
MTDE 333	Project Management for Engineers	3
Select two of the following:		6
CHEN 364	Kinetics and Reactor Design	
CHEN 459	Gas and Petroleum Processing	
PETE 413	Natural Gas Engineering	
<b>Total Semester Credit Hours</b>		<b>16</b>

A grade of C or better is required in minor courses.

Minimum of 6 hours at 300- to 400-level.

A minimum of 3.0 GPA with at least 30 hours of Texas A&M resident credit is required to enter the minor.