

Midstream Minor

Department of Petroleum Engineering

A new minor for engineers who want to focus on the transportation of energy resources.

Midstream involves the transportation and storage of crude oil, gas or refined products. Most of these products are transported through pipelines. Pipeline engineers design, construct, replace, repair, monitor and operate pipelines, pumps and gas compression stations. Ultimately, the midstream sector provides an integral link between the upstream and downstream sectors.


Career Opportunities


Midstream is now the third largest sector of the US oil and gas industry. It supports approximately 323,000 jobs in the United States; 63,000 from direct employment.

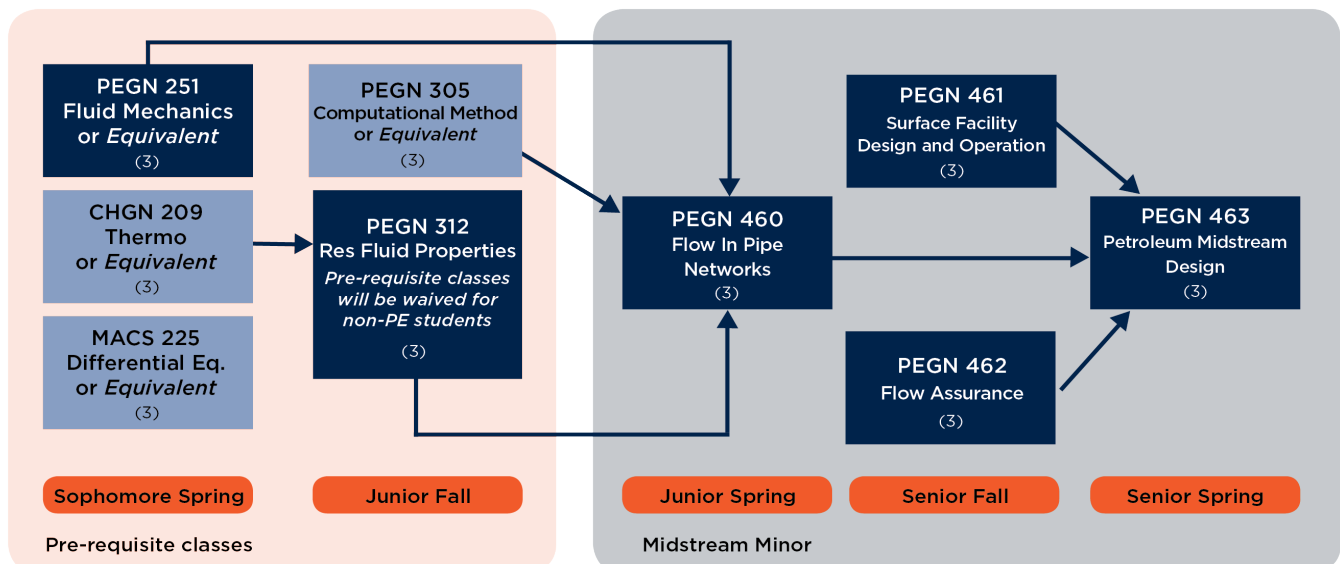
The 475,000 miles of midstream energy pipeline, 1,400 compressor stations, 400 underground natural gas storage facilities, and 100 liquefied natural gas peaking facilities spread across the nation require highly skill engineers to design, monitor, troubleshoot and optimize them.

Knowledge and Skills Needed for Career Success:

- Hydraulic modeling
- Flow assurance (asphaltene, wax, scale, hydrates, sand production, and slugging)
- Surface production facilities design, sizing, selection and operation
- Process control
- Health, safety, security, environment and social responsibility
- Mechanics of materials
- Excel, VBA, numerical models
- Math & problem solving
- Self-motivating
- Team player

 Classes required to complete the Midstream Minor

 Pre-requisite classes to take Midstream Classes



Contact Terri Snyder at tsnyder@mines.edu or 303-273-3827 or Dr. Rosmer Brito at rmbritojurado@mines.edu for more information and full course requirements.