Minor in Petroleum Systems

Contact Information
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Petroleum Systems
The petroleum industry employs a wide variety of engineers and scientists and this interdisciplinary minor is available to any student on campus interested in expanding their portfolio of coursework to include additional content relevant to the energy sector.

Program requirements
Science and engineering majors may pursue a Minor in Petroleum Systems by completing eighteen (18) credit hours of courses. A minimum of six credits must be for courses outside of those that are required or elective in their major.

Required courses (9 credits)
- GEOE 412 Science and Engineering Field Applications Credits: (0-3) 3 (Petroleum Field Camp section only)
- GEOE 461 Petroleum Drilling and Production Engineering Credits: (3-0) 3
  One of:
  - CBE 218 Chemical Engineering Fluid Mechanics Credits: (3-0) 3
  - ME 331 Thermo Fluid Dynamics Credits: (3-0) 3

Elective courses (9 credits from this list)
- CBE 217 Chemical Engineering Material Balances Credits: (3-0) 3
- CBE 222 Chemical Engineering Process Thermodynamics Credits: (3-0) 3
- CBE 321 Chemical Engineering Equilibrium Thermodynamics Credits: (3-0) 3
- CBE 417 Chemical Engineering Equilibrium Separations Credits: (2-0) 2
- CBE 444/544 Reactor Design Credits: (3-0) 3
- CBE/MET 445/545 Oxidation and Corrosion of Metals Credits: (3-0) 3
- CBE 482 Upstream Oil and Gas Processing
- CBE 483 Petroleum Refining
- CBE 485/585 Renewable and Sustainable Energy Credits: (3-0) 3
- CBE 485L/585L Renewable and Sustainable Energy Lab Credits: (0-1) 1
CEE 326 Environmental Engineering I Credits: (3-0) 3
CEE 428 Oil and Gas Development and the Environment (3-0) 3
GEOE 324/324L Engineering Geophysics I/Lab Credits: (2-1) 3
GEOL 476/576 Petroleum Geology Credits: (3-0) 3
ME 269/269L Energy Systems Production Development/Design (2-2) 4
ME 402/502 Gas Dynamics Credits: (3-0) 3
ME 492 Topics (Sustainable Energy section only) Credits: 1 to 5