# MINOR IN NATURAL GAS AND WATER RESOURCES

**Required Core Courses**
- GEOL 2620: Intro to Natural Gas and Water Resources (3 s.h.)
- ENST 2600 & 2600L: Foundations of Environmental Studies and Foundations of Environmental Studies Laboratory (4 s.h.)
- STEM 2625: Natural Gas and Water Resources Seminar (1 s.h.)

**A. Water Resources and Environmental Management**
Select at least 3 s.h. from group A:
- BIOL 4801 & 4801L: Environmental Microbiology and Environmental Microbiology Laboratory (3 s.h.)
- BIOL 5888: Environmental Biotechnology
- CCET 3724: Hydraulics and Land Development
- CCET 4824: Environmental Technology
- CEEN 3736: Fundamentals of Environmental Engineering
- CHEM 2604 & 2604L: Quantitative Analysis and Quantitative Analysis Laboratory
- CHEM 3719 & 3719L: Organic Chemistry 1 and Organic Chemistry 1 Laboratory
- CHEM 4860: Regulatory Aspects of Industrial Chemistry
- CHEM 5804 & 5804L: Chemical Instrumentation and Chemical Instrumentation Laboratory
- ENST 3700 & 3700L: Environmental Chemistry and Environmental Chemistry Lab
- CEEN 3751 & 3751L: Water Quality Analysis and Water Quality Analysis Lab

**OR**
- ENST 3751 & 3751L: Water Quality Analysis and Water Quality Analysis Lab
- ENST 3781: Environmental Sampling Methods
- ENST 5860: Environmental Regulations (or AHLT 5816: Environmental Regulations)
- GEOG 3735: Water in the Earth System
- GEOL 4804: Ground Water
- GEOL 5817: Environmental Geochemistry

**B. Natural Gas Production**
Select at least 3 s.h. from group B:
- ACCT 3730: Oil and Gas Accounting (3 s.h.)
- AHLT 4808: Environmental Health Concerns
- CEEN 3716 & 3716L: Fluid Mechanics and Fluid Mechanics Lab

**OR**
- MECH 3720 & 3720L: Fluid Dynamics and Fluid Dynamics Laboratory

**OR**
- MET 3714 & 3714L: Fluid Mechanics and Fluid Mechanics Laboratory
- CHEN 2688: Energy Assessment
- GEOL 3709: Subsurface Investigations
- GEOL 4825: Geophysical Well Log Analysis
- ISEN 3736: Methods Engineering
- ISEN 3736L: Methods Engineering Laboratory

**Natural Gas and Water Resources Applications**
- STEM 4890: STEM Internship (1-4 s.h.)
- STEM 4895: Senior Thesis (Equivalent course may be taken within CSTEM department degree programs) (3 s.h.)

Total Semester Hours: 18-21