

ENER 1511 - Safety, Health, and Environmental Protection in Field Operations

Fall 2026 Syllabus, Section 01, CRN 44182,

Credit hours: 2

Instructor

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Public Instructor Information

Instructor Title: Assistant Professor

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Course Description

1511: Safety, Health, and Environmental Protection in Field Operations. This course introduces principles of safety and hazard recognition in well plugging and abandonment operations. Topics include wellsite hazards, hydrogen sulfide awareness, fire safety, emergency response, basic first aid concepts, and workplace safety practices. Emphasis is placed on risk identification, prevention, and regulatory compliance in field environments. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Safety, Health, and Environment	North American Process Technology Alliance	9780135572498
Optional	Oil and Gas Industry Fundamentals	Tony Brown	9798197092519
Optional	Basics of Occupational Safety	David L. Goetsch	9780134678719

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Introduction to Safety, Health, and Environment Types of Hazards and Their Effects		
8/31	Introduction to Hazard Controls	Quiz 1	
9/7	Recognizing Chemical Hazards Recognizing Biological Hazards		
9/14	Equipment and Energy Hazards	Quiz 2	
9/21	Fire and Explosion Hazards		
9/28	Pressure, Temperature, and Radiation Hazards	Quiz 3	
10/5	Hazardous Atmospheres and Respiration Hazards Working Area and Height Hazards		
10/12	Hearing and Noise Hazards Construction, Maintenance, and Tool Hazards	Quiz 4	
10/19	Vehicle and Transportation Hazards Natural Disasters and Inclement Weather		



10/26	Physical Security and Cybersecurity	Quiz 5
11/2	Permitting Systems	
11/9	Personal Protective Equipment and First Aid	
11/16	Monitoring Equipment	Quiz 6
11/23	Oilfield Case Studies	
11/30	Oilfield Case Studies	
12/7	Final Exam - online	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.