

ENER-2510-PRODUCTION CHEMICALS

3 CREDITS

SYLLABUS

CATALOG DESCRIPTION

To provide students with information of liquids in a wellbore can reduce or stop gas flow up the tubing. Students will learn about working with densities of fluids and water compositions and how it can impact daily production volumes and downhole configurations.

Prerequisites: None

Semester Offered: All

COMMON STUDENT LEARNING OUTCOMES

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

COURSE LEARNING OUTCOMES

Upon successful completion of the course, the student will be able to...

1. Learn how produced liquids impact minimum lift up the tubing string.
2. Learn how adding chemicals can change the density of liquids.
3. Find how chemicals can be useful when used correctly.

A copy of this approved syllabus is on file in the dean's office.

Updated 12/14/18

4. Learn how surface equipment is impacted when using chemicals downhole.
5. Calculate delayed production impacts from liquid loaded wells.
6. Become knowledgeable in soaping wells.
7. Apply results from chemicals to life of the well.
8. Learn how Oil and Gas are impacted by water composition.