

Free Online Course in Reservoir Geomechanics
Professor Mark Zoback, Stanford University

Start Date: March 26, 2018

Duration: 10 weeks, 20, 90-minute lectures, 8 HW assignments

A Certificate of Accomplishment will be issued to students who complete HW assignments with a grade of 70%, or better

For more information and to enroll go to the following URL:

<https://lagunita.stanford.edu/courses/course-v1:EarthSciences+ResGeo202+Spring2018/about>

This interdisciplinary course encompasses the fields of rock mechanics, structural geology, earthquake seismology and petroleum engineering to address a wide range of geomechanical problems that arise during the exploitation of oil and gas reservoirs. To date, over 9000 people – principally college students and current industry professionals – have successfully completed the course.

The course considers key practical issues such as prediction of pore pressure, estimation of hydrocarbon column heights and fault seal potential, determination of optimally stable well trajectories, casing set points and mud weights, changes in reservoir performance during depletion, and production-induced faulting and subsidence. The first part of the course establishes the basic principles involved in a way that allows readers from different disciplinary backgrounds to understand the key concepts.

Reservoir Geomechanics is a practical course for geoscientists and engineers in the petroleum and geothermal industries, and for research scientists interested in stress measurements and their application to problems of faulting and fluid flow in the crust.

The course follows the text book, Reservoir Geomechanics by Prof. Zoback. The book is recommended, but not required for the course. It is available from Cambridge University Press and Amazon. It is also available electronic form for the Kindle.