

GEOP 501

Reflection Seismology

Fall 2017

Instructor: Dr. Abdullatif Al-Shuhail

Office: 76 – 2163

Meeting Hours:

Office Hours:

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Objectives of the course:

- To analyze current issues in the seismic reflection method of petroleum exploration including:
 - Overview
 - Borehole seismology
 - Design of land 3-D seismic surveys
 - Topics on seismic wave propagation (given by industry professionals)

Textbook:

- TBA.

Supplementary Reading:

- *Seismic Data Analysis* by O. Yilmaz, 2001.
- *Exploration Seismology* by R. E. Sheriff and L. P. Geldart, 1995.
- *Introduction to Geophysical Prospecting*, by M. Dobrin and C. Savit, 1988.

Grading Scheme

- 30% Midterm exam
- 30% Final exam
- 30% Homeworks
- 10% Attendance & class participation