

GEOP 320

Seismic Data Processing

Spring 2004

Instructor: Dr. Abdullatif Al-Shuhail

Office: 3 – 110

Office Hours: Sat + Mon 11:00 – 1:00

Office Phone: 860-3584.

e-mail: ashuhail@kfupm.edu.sa

Lecture Time & Place: Sun + Tue 11:00 – 12:15 in 3 – 114.

Lab Hours: TBA

Objective of the course: To learn the theoretical and practical aspects of seismic data processing and apply them to synthetic and real seismic datasets in the lab.

Textbooks:

Lecture: Seismic Data Analysis, Volume 1, *by* O. Yilmaz, 2001.

Laboratory: Processing Near-Surface Seismic Reflection Data: A Primer *by* G.S. Baker, 1999.

Supplementary Reading: Geophysical Signal Analysis, *by* E.A. Robinson and S. Treitel, 2000.

An Introduction to Digital Signal Processing *by* J.H. Karl, 1989.

Seismic Processing Software: Visual SUNT by W-Geosoft.

Grading Scheme

25% Midterm exam

25% Final exam

30% Laboratory work & reports

10% Quizzes

10% Attendance & class participation