

WEEK 1

Task 1-1. Introduction to Quantitative Analysis and Problem Solving

http://www.wou.edu/las/physci/taylor/es486_petro/Intro_quant_exercise.pdf

Other Assignments: Read Selley Text Chapters 1 (Intro) and 2 (Petroleum Chemistry) on Moodle Site, Print class notes, assemble in binder.

WEEK 2

Task 2-1. Earth Revealed Intro to Sedimentary Rocks Video Exercise

http://www.wou.edu/las/physci/taylor/es486_petro/sed_videx.pdf

Task 2-2. Review of Sedimentary Rocks Lab Exercise

http://www.wou.edu/las/physci/taylor/es486_petro/Lab_Sed_Rocks_Review.pdf

Other Assignments: Watch introduction to petroleum geology videos, Read Selley Text Chapters 1-2, **Moodle Test Upload with scanned / PDF conversion; due Jan. 16**; print notes assemble in binder as needed.

WEEK 3

Task 3-1. In-Class Exercise: Physical Properties of Fluids

http://www.wou.edu/las/physci/taylor/es486_petro/Phys_subsurface_pressure_exercise.pdf

Task 3-2. Introduction to Engineering Principles and Rock Properties Exercise (Q. 1,2,3,4,5,7,8,9,11,21,23)

http://www.wou.edu/las/physci/taylor/es486_petro/intro_engineering_properties_exercise.pdf

Other Items: Read "Bulk Properties of Rock" http://www.wou.edu/las/physci/taylor/es486_petro/intro_rock_properties_reading.pdf, **Scan/Upload ES486 Lab Progress Report 1 to Moodle site (Due Friday Jan. 23; 11 PM)**; print notes assemble in binder as needed; Read Selley Text Chapter 4 (Subsurface Environments) on Moodle Site.

WEEK 3-4

Task 4-1. Keyword Review Exercise: Sedimentology, Stratigraphy, Sedimentary Basins

http://www.wou.edu/las/physci/taylor/es486_petro/key_word_search_strat_sed.doc

Task 4-2. Review of Sedimentary Structures, Facies and Environments Lab

http://www.wou.edu/las/physci/taylor/es486_petro/Lab_Sed_Strat_Review.pdf

Task 4-3. In-Class Exercise: Application of the Ideal Gas Law to Natural Gas Extraction

http://www.wou.edu/las/physci/taylor/es486_petro/class_ex_ideal_gas_law.pdf

Other Assignments: Read Selley Text Chapter 5 (Generation-Migration of Petroleum in Source Rocks) on Moodle Site.

Week 5

Task 5-1. Lab Exercise - Fritz and Moore Chapter 2, Stratigraphic Principles and Lithologic Correlation (Key Concept focus pages: p. 25, p. 27, p. 29, p. 37, p. 40) (Lab Exercises to Complete: Exercise 2.2 p. 44, Exercise 2.3 p. 45, Exercise 2.4 p. 46, Exercise 2.5 p. 47)

http://www.wou.edu/las/physci/taylor/es486_petro/Fritz_Moore_Strat_Chap2_Correlation.pdf

Task 5-2. Lab Exercise – Fritz and Moore Chapter 5, Stratigraphic Correlation Part 2 (Use the lithologic symbols on p. 125 to scale draw the three stratigraphic columns in Exercise 5.5.1 on p. 145-146; Complete steps 1-7 as outlined)

http://www.wou.edu/las/physci/taylor/es486_petro/Fritz_Moore_Strat_Chap5_Strat_Columns.pdf

Other Assignments: Read Selley Text Chapter 6 (Reservoirs) on Moodle Site; compile midterm lab portfolio in PDF format with all title pages and table of contents, submit by Wed. Feb. 11.