ENME 4765

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ENME 4765  Introduction to Petroleum Engineering

Fall 2015
M 6:00 - 8:40 PM
Engineering Building 317

Prof. Philip Moses
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(504) 280-xxxx

Office Hours: Mondays, 5:00- 6:00 or as requested (room 903)

Course Prerequisites: Freshman Chemistry, Fluids, Mechanics of Materials, and Economics

Course Description: This course explores the nature of Global Supply and demand, the role of geology in interpreting the location of petroleum deposits, the division of commercial activities into upstream, midstream and downstream sectors. The course will concentrate on the activities in the upstream sector, including exploration, leasing, drilling, production and subsurface management. The role of risk in developing upstream petroleum operations will be discussed. The factors that are required to perform an economic analysis will be reviewed. The important factors relating to health, safety and protecting the environment will also be covered.

Student Learning Objectives: After successful completion of this course, students will be able to
1) Possess a broad understanding of the petroleum business from the petroleum reservoir to the gas pump. 2) Develop a more in-depth understanding of the upstream side of the business, including: the drilling process, acquisition of petroleum leasing, the importance of geological mapping, and the interpretation of well logs. 3) Perform some basic production and reservoir engineering calculations. 4) Understand the inherent uncertainty and risks involved in upstream petroleum activities: financial, environmental, health and safety factors. 5) Perform a simple investment cash flow analysis.

Academic Integrity: Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the UNO Judicial Code for further information. The Code is available online at http://www.studentaffairs.uno.edu/accountability.cfm.

Accommodations for Students with Disabilities: It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss
their individual needs for accommodations. For more information, please go to http://www.ods.uno.edu.

The workload for the course is significant. Students will be required to read widely and thoroughly. There will be one lecture a week; attendance at lectures is mandatory. A sign-up sheet will be distributed at the beginning of class.

There will be an in-class midterm, a take-home midterm, five homework tests, and an in-class final. Grades will be calculated as follows:

- First (in-class) midterm: 30%
- Five homework tests: 5% each, for a total of 25%
- Final Exam (In House): 35%
- Attendance Participation: 10%

The in-class midterm will be held on the Monday, October 6th. The take-home midterm will be handed out at the end of that class, and will be due at 5 pm on Saturday, October 11th. Both will cover all readings and lectures to that point. The in-house final will be held on the last day of class, Monday December 8th.

Again, the course involves a fairly heavy reading load, the completion of which is essential to understand and compliment the lectures. One book should be purchased or borrowed for the course. It should be available at the UNO bookshop or available new or used from online bookstores.

**Required Reading:**


