

GEOL 4311 – Petroleum Geology
ENVM 5099A – Petroleum Resource Management
Dr. Steven J. Rosscoe (srosscoe@hsutx.edu)

Class Meets: Th, 6:00 pm – 9:00 pm
Class Room: Sid Richardson 230

Office: Sid Richardson 206
Phone: (325) 670-1387

Office Hours:

Mondays and Fridays: 9 am – 10 am & 11 am – 12 pm
Tuesdays and Thursdays: 9 am – 10:30 am
Wednesdays: 9 am – 10 am & 11 am – 12 pm & 1 pm – 2 pm

Required Materials:

Petroleum Geology eTextbook, by Stephen L. Bend ver. 1.1 (An AAPG Special Publication on CD-ROM)

Course Description:

This course is designed to introduce students with an interest in the oil industry the fundamental concepts of the origins of petroleum, exploration, and production. The course is a discussion-style class where we will occasionally take on other topics as needed.

Expected Learning Outcomes:

- Understand the chemical and physical properties of oil.
- Develop an understanding of how oil is generated by physical and chemical processes.
- Learn the basic steps in oil exploration and extraction.

Assessment of Expected Learning Outcomes:

Student success in completing the ELOs for the course will be evaluated through formal assessment methods (graded exams) and informal methods (class discussion).

The Course Grade:

The course grade will be determined by the grades earned by the student in two examinations (Both worth 100 points each). The total point value for the course is 200 points:

A = > 90.00% (≥ 1035 points)	B = 80.00%-89.99% (920 – 1034 points)	C = 70.00%-79.99% (805 – 919 points)	D = 60.00%-69.99% (690 – 804 points)	F = < 59.99% (≤ 689 points)
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Course Schedule:

<i>Date:</i>	<i>Topic:</i>	<i>Chapter:</i>
01/14/2010	Course Planning	NA
01/21/2010	History of the Industry, Economics of Oil	Chapter 1
01/28/2010	What is Petroleum?	Chapter 2
02/04/2010	<i>No Class – Holland School of Math & Science Field Trip</i>	NA
02/11/2010	Forming Oil from Living Material	Chapter 3
02/18/2010	Reservoirs, Traps, and Basins	Chapter 4
02/25/2010	<i>No Class – Holland School of Math & Science Field Trip</i>	NA

<i>Date:</i>	<i>Topic:</i>	<i>Chapter:</i>
03/04/2010	Oilfield Conditions	Chapter 5
03/11/2010	Midterm Examination	Chapters 1-5
03/18/2010	<i>No Class – Spring Break – University Wide</i>	NA
03/25/2010	Oil Exploration	Chapter 6
04/01/2010	Drilling the Well	Chapter 7
04/08/2010	Production and Recovery	Chapter 8
04/15/2010	<i>No Class – South-Central GSA Meeting, Branson, Missouri</i>	NA
04/22/2010	Well Logging Introduction	Chapter 9
04/29/2010	Petro-evolution	Handouts
05/06/2010	Final Examination	

University Policies:

Academic Integrity Policy

Please refer to the Academic Integrity Policy found on pages 34-35 of the 2009-2010 *Undergraduate Catalog* and on pages 39-41 in the 2008-2009 *Student Handbook*, which is now on the HSU website. The student should become familiar with the policy and its terms. The policy applies to all assignments and tests in this class.

Attendance Policy

For class attendance policy, refer to the Attendance Policy found on pages 32-33 of the 2009-2010 *Undergraduate Catalog*. “Accordingly, absence from more than 25 percent of class meetings and/or laboratory sessions scheduled for a course (including absences because of athletic participation) is regarded as excessive, and a grade of F may be assigned as deemed appropriated by the professor.” Excused absences are still counted in the total number of absences. The fact that an absence is excused means only that the student has the opportunity to make up the work missed during the absence without penalty to his/her grade. It is the responsibility of the student to make arrangements with the professor to complete the work in a time frame agreeable with the professor. Additional specific policies might be included in individual class settings by the professor.

University Policy on Students Regarding Disabilities

Any student with a professionally diagnosed learning disability and/or other professionally diagnosed disability that may affect course performance may choose to seek accommodation. If so, the student has the responsibility to notify the Office for Students with Disabilities of such at the beginning of the semester. Notification must be given during the first week of classes. This will allow time for documentation of the disability through the HSU Office for Students with Disabilities and for discussion of legitimate alternate means by which the student will be successful in the course. (Phone # 670-5842, Moody Center Room 214, Coordinator for Students with Disabilities: Mrs. Kaci Murphy)

University Policy on Cell Phones and Beepers in Class

“Disruption of class by the sounds of cell phones and paging devices is forbidden. A student facing the possibility of receiving an emergency message by one of these means may leave the device turned on during class, but the student must inform the professor of that possibility at the beginning of class. Unless facing an emergency call, the student must turn the device off at the beginning of class and turn it back on only after the class has been dismissed. Routine work-related calls are not considered emergencies nor are personal calls from friends or business associates.” 2008-2009 *Student Handbook* page 38.

Official University Communication

The official avenue for the University, its faculty and offices to communicate with students is the students' HSU email address. It is the responsibility of the student to check his/her HSU email address regularly for official university communication. Failure of the student to regularly check his/her HSU email address will not excuse the student from his/her responsibility for complying with any actions indicated in the university emails.

Important Dates:

January 11, 2010: Classes begin

January 18, 2010: Martin Luther King Jr. Holiday

January 19, 2010: Last day to Register or change Classes, last day to change from Credit to Audit, Last Date to Drop a Class with a Full Refund (This does not apply to a student who withdraws from school.)

February 15, 2010: Last day to Drop a course with a grade of W. Last date to file a Diploma Card for May Graduation.

March 15-19, 2010: Spring Break

March 24, 2010: Mid-semester Progress Reports for Freshmen

April 19, 2010: Last date to Withdraw from a course.

May 3-6, 2010: Final Exams