PETR 311
Drilling
Fall 10

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Text: Applied Drilling Engineering  
SPE Textbook Series

The goal of this course is to introduce the basics of rotary drilling.  This is the preferred method of drilling of oil and or gas wells.  The basic drilling processes and rig components will be covered along with the downhole assemblies which includes drill bits.  The emphasis will be on the drilling hydraulics a major factor in drilling process and well control.  The drilling fluids (mud) both the newtonian and nonnewtonain fluids will be covered in class and the labs.

Topics
1) Introduction and history of drilling
2) Rig components and drilling processes
3) Downhole assemblies & drill strings
4) Drilling fluids
5) Drilling hydraulics
6) Well control
7) Other topics

Homework
Counts! Must be neat and readable to count. Also on time.

Test
There should be 2 or 3 tests, final if necessary