Course title and number: 650 Advanced Drilling Engineering
Term: Spring 2013
Meeting times and location: Monday, Room 319L and Online from 11:30 a.m. to 2:40 p.m.

Course Description and Prerequisites

Catalog Description: Underbalanced drilling, Horizontal, Extended Reach, Multi-Lateral Drilling, Fishing Operations, Geothermal Drilling, High Pressure High Temperature Drilling.

Prerequisites(s): PETE 405 or equivalent basic drilling engineering

Learning Outcomes or Course Objectives

Provides students with an introduction to advanced drilling topics such as well control, underbalanced drilling, modern drilling technologies, designer wells, geothermal well drilling and fishing operations. Additionally this course offers the opportunity to learn about team work and distance learning communication.

Topics Covered:

1. Introduction to class, review of important topics of previous courses
2. Advanced drilling technology Topics: Managed pressure drilling, dual gradient drilling, special well control issues.
4. Drilling Problems: stuck pipe situations, fishing operation
5. Underbalanced Drilling- Introduction to UBD, UBD techniques, benefits of UBD equipment, selecting an appropriate candidate, and UBD well engineering.
6. Advanced drilling technologies – casing drilling, HPHT, Introduction to Horizontal/Extended Reach/and Multilateral Drilling Operations
7. Non-conventional drilling methods and equipment including environmental aspects of drilling activities
8. Geothermal Drilling

Special topics (some of them covered by industry experts)

Instructor Information

Name: Catalin Teodoriu
Telephone number: N/A
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Office hours: Online available most of the time
Office location: Web

Textbook and/or Resource Material

None at this time
Grading Policies

Method of Evaluation:
- Final examination: 60%
- Design Project: 40%
- Total: 100%

Americans with Disabilities Act (ADA)
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

Academic Integrity
For additional information please visit: http://aggiehonor.tamu.edu

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