

Undergraduate Council
 New Course Course Change *2009*
 Core Category: *DOUB* Effective Fall *2008*

or

Graduate/Professional Studies Council
 New Course Course Change
 Effective Fall

1. Department: CHE ENG College: ENGR
 2. Person Submitting Form: Dr. Michael P. Harold Telephone: 34307

RECEIVED MAR 06 2008

3. Course Information on New/Revised course:
 • Instructional Area / Course Number / Long Course Title:
PETR / 3211 / Petroleum Engineering Lab
 • Instructional Area / Course Number / Short Course Title (30 characters max.)
PETR / 3211 / PETR ENGR LAB
 • SCH: 2.00 Level: JR CIP Code: 14.2501.00 Lect Hrs: 0 Lab Hrs: 24

APPROVED OCT 22 2008

4. Justification for adding/changing course: To provide for new discipline areas

5. Was the proposed/revised course previously offered as a special topics course? Yes No

If Yes, please complete:

• Instructional Area / Course Number / Long Course Title:

 / /

• Content ID: Start Date (yyyy3):

6. Authorized Degree Program(s): BS, Petroleum Engr

- Does this course affect major/minor requirements in the College/Department? Yes No
- Does this course affect major/minor requirements in other Colleges/Departments? Yes No
- Are special fees attached to this course? Yes No
- Can the course be repeated for credit? Yes No

7. Grade Option: Letter (A, B, C ...) Instruction Type: laboratory ONLY (Note: Lect/Lab info. must match item 3, above.)

8. If this form involves a change to an existing course, please obtain the following information from the course inventory: Instructional Area / Course Number / Long Course Title

 / /

• Start Date (yyyy3): Content I.D.:

9. Proposed Catalog Description: (If there are no prerequisites, type in "none".)

Cr: 2. (0-2) Prerequisites: MATH2433, PHYS1322, INDE2333, PETR1111, and
PETR2311. Corequisites: PETR 3313, PETR 3315, and PETR 3321. Description (30 words max.):


Determination of rock porosity, permeability, density, fluid saturation, capillary pressure, compressive and tensile strength, mechanical properties of rocks, etc.

10. Dean's Signature

Date: 3/6/08

Print/Type Name: Joseph Tedesco, Dean

Cullen College of Engineering **UC 9782 08F**
CBM003 Supplement - *B Fo* Page 3 of 4
(New Course)

	4/21/08	<input checked="" type="checkbox"/> Approved
Chair of Initiating Dept. Signature	Date	

PETR 3211: Petroleum Engineering Laboratory Page 4 of 4
Credit: 2

Course description: Determination of rock porosity, permeability, density, fluid saturations, capillary pressure, rock compressive and tensile strength, mechanical properties of rocks, etc.

Pre-requisites: MATH 2433, PHYS 1322, INDE 2333, PETR 1111, PETR 2311. Co-requisites: PETR 3313, PETR 3315, & PETR 3321.

Course objectives: students learn the basic rock properties controlling reservoir behavior and how they are measured in the laboratory.

Rock sample preparation	3
Porosity Measurement	2
Permeability measurement	2
Density measurement	2
Fluid saturation measurements	3
Capillary pressure measurement	2
Compressive and tensile strength of rocks	5
Mechanical properties of rocks	5
Statistical data analysis	2
Report writing	2
Total	28 hrs

Method of evaluation	
Class participation	10%
Laboratory reports	70%
Final examination	20%

Contributions to professional component

The students learn which formation properties are important in determination of reserves and how to measure them in the laboratory