

UC 11387 IIF

UNIVERSITY of HOUSTON

CULLEN COLLEGE of ENGINEERING
Petroleum Engineering

APPROVED FEB 22 2012
JW

October 11, 2011

RECEIVED OCT 14 2011
JW

MEMORANDUM-

To: UH Engineering Undergraduate Curriculum Committee

Re: UH Petroleum Engineering Program Degree Plan Changes to be Effective Fall 2012

From: Thomas K Holley, Program Director

TH *11/11/11*
Thomas K Holley

I am submitting the 2011 approved Petroleum Degree Plan with a revised 2012 proposed Petroleum Degree Plan for your review. The 2012 proposal is now in 2 separate degree plans.

Approved:

D P Shattuck

12 Oct 2011

David P Shattuck

PETROLEUM ENGINEERING UNDERGRAD DEGREE PLAN
Effective Fall 2011

Year 1 Fall Semester

ENGL 1303	Freshman Composition	3
MATH 1431	Calculus I	4
GEOL 1330	Physical Geology	3
CHEM 1331	Fund. of Chemistry	3
CHEM 1111	Fund. of Chemistry Lab	1
	Total Hours	14

Year 1 Spring Semester

ENGL 1304	Freshman Composition II	3
MATH 1432	Calculus II	4
PHYS 1321	Physics I	3
CHEM 1332	Fund. of Chemistry II	3
CHEM 1112	Fund. of Chemistry Lab	1
PETR 1111	Introduction to Hydrocarbon Resources	1
	Total Hours	15

1100

Year 2 Fall Semester

VISUAL & PERFORM ARTS	Visual and Performing Arts	3
MATH 2433	Calculus III	4
PHYS 1322	Physics II	3
CHEE 1331	Computing for Engineers	3
INDE 2333	Engineering Statistics I	3
	Total Hours	16

Year 2 Spring Semester

HIST 1377	US History to 1877	3
MATH 3321	Engineering Mathematics	3
CHEE 2331	Chemical Processes	3
MECE 3400	Introduction to Mechanics	4
PETR 2311	Reservoir Petrophysics	3
	Total Hours	16

Year 3 Fall Semester

HIST 1378	US History Since 1877	3
ENGI 2304	Technical Communication	3
PETR ELECTIVE 1	PETR Elective	3
CHEE 2332	Thermodynamics I	3

Year 3 Fall Semester

PETR 3362	Reservoir Engineering I	3
PETR 5392	Project Management	3
	Total Hours	18

Year 3 Spring Semester

POLS 1336	US Government	3
CHEE 3363	Fluid Mechanics for Chemical Engineers	3
PETR 3211	Petroleum Engineering Lab	2
PETR 3321	Petroleum Transient Testing	3
PETR 3313	Reservoir Fluids	3
PETR 3315	Introduction to Well Logging (Prerequisite)	3
	Total Hours	17

Year 4 Fall Semester

POLS 1337	US Government	3
PETR 3318	Well Drilling and Completion	3
PETR 5324	PETR Module 1: Course 1: Reservoir Theory	3
PETR 5310 OR	PETR Module 2: Course 1: Petroleum Production Economics	3
CHEM 3331	PETR Module 3: Course 1: Fundamentals of Organic Chemistry	
PETR 5350 OR	PETR Module 2: Course 2: Natural Gas	3
CHEM 3221	PETR Module 3: Course 2: Fundamentals of Organic Chemistry Lab	2
	Total Hours	14/15

Year 4 Spring Semester

HUMANITIES	Humanities Core	3
SOC&BEH SCI	Social & Behavioral Science-Core	3
PETR ELECTIVE	PETR Elective	3
2		
PETR 5302	PETR Module 1: Course 2/Reservoir Engineering II	3
PETR 5325	PETR Module 1: Course 3: Integrated Reservoir Characterization	3
PETR 5372 OR	PETR Module 2: Course 3//Production Oper	3
CHEE 3333 or CHEE 3300	PETR Module 3: Course 3: Choice of: Thermo II or Materials Science and Engineering I	
	Total Hours (Module 2 or Module 3)	18

Total Degree Plan 128/129 Hours

**PETROLEUM ENGINEERING UNDERGRAD
DEGREE PLAN 2
Effective Fall 2012 Module 3 Option: Chemical
Engineering**

First Year		
Course #	Course	Hrs.
ENGL 1303	Freshman Composition	3
MATH 1431	Calculus I	4
GEOL 1330	Physical Geology	3
CHEM 1331	Fund. of Chemistry	3
CHEM 1111	Fund. of Chemistry Lab	1
PETR 1111	Introduction to Petroleum Engineering	1
Total Hours	First Year Fall Semester	15
First Year Spring Semester		
Course #	Course	Hrs.
ENGL 1304	Freshman Composition	3
MATH 1432	Calculus II	4
PHYS 1321	Physics I	3
CHEM 1332	Fund. of Chemistry II	3
CHEM 1112	Fund. of Chemistry Lab	1
Total Hours	First Year Spring Semester	14
Second Year Fall Semester		
Course #	Course	Hrs.
VISUAL & PERFORM ARTS	Visual and Performing Arts	3
MATH 2433	Calculus III	4
PHYS 1322	Physics II	3
CHEE 1331	Computing for Engineers	3
PETR 2311	Reservoir Petrophysics	3
Total Hours	Second Year Fall Semester	16
Second Year Spring Semester		
Course #	Course	Hrs.
HIST 1377	US History to 1877	3
MATH 3321	Engineering Mathematics	3
CHEE 2331	Chemical Processes	3
PETR 3313	Reservoir Fluids	3
INDE 2333	Engineering Statistics I	3
Total Hours	Second Year Spring Semester	15
Third Year Fall Semester		
Course #	Course	Hrs.
HIST 1378	US History Since 1877	3
ENGI 2304	Technical Communication	3
MECE 3400	Introduction to Mechanics	4
CHEE 2332	Thermodynamics I	3
PETR 3362	Reservoir Engineering I	3
PETR 3315	Introduction to Well Logging	3
Total Hours	Third Year Fall Semester	19

Third Year Spring Semester		
Course #	Course	Hrs.
POLS 1336	US Government	3
CHEE 3363	Fluid Mechanics for Chemical Engineers	3
PETR 3321	Petroleum Transient Testing	3
PETR 3318	Well Drilling and Completion I	3
PETR ELECTIVE	PETR Elective	3
Total Hours	Third Year Spring Semester	15
Fourth Year Fall Semester		
Course #	Course	Hrs.
POLS 1337	US Government	3
PETR 4311	Petroleum Engineering Capstone Lab	3
PETR 5324	PETR Module 1: Course 1: Theory of Reservoir	3
CHEM 3331	PETR Module 3: Course 1: Fundamentals of Organic Chemistry	3
CHEM 3221	PETR Module 3: Course 2: Fundamentals of Organic Chemistry Lab	2
Total Hours	Fourth Year Fall Semester	14
Fourth Year Spring Semester		
Course #	Course	Hrs.
HUMANITIES	Humanities Core	3
SOC&BEH SCI	Social & Behavioral Science-Core	3
PETR 5392	Project Management	3
PETR 5302	PETR Module 1: Course 2: Reservoir Engineering II	3
PETR 5325	PETR Module 1: Course 3: Integrated Reservoir Characterization	3
CHEE 3333 or CHEE 3300	PETR Module 3: Course 3: Choice of: Thermo II or Materials Science and Engineering I	3
Total Hours	Fourth Year Spring Semester (Module 2 or Module 3)	18
TOTAL HRS	TO GRADUATE= 126	

Note: Module 1 - required of all students;
Students have a choice to complete all courses in the Module 2 Option or all courses in Module 3 Option to complete their degree requirements.

**PETROLEUM ENGINEERING UNDERGRAD
DEGREE PLAN 1
Effective Fall 2012 Module 2 Option: Production
Engineering**

First Year Fall Semester		
Course #	Course	Hrs.
ENGL 1303	Freshman Composition	3
MATH 1431	Calculus I	4
GEOL 1330	Physical Geology	3
CHEM 1331	Fund. of Chemistry	3
CHEM 1111	Fund. of Chemistry Lab	1
PETR 1100 1111	Introduction to Petroleum Engineering	1
Total Hours	First Year Fall Semester	15
First Year Spring Semester		
Course #	Course	Hrs.
ENGL 1304	Freshman Composition	3
MATH 1432	Calculus II	4
PHYS 1321	Physics I	3
CHEM 1332	Fund. of Chemistry II	3
CHEM 1112	Fund. of Chemistry Lab	1
Total Hours	First Year Spring Semester	14
Second Year Fall Semester		
Course #	Course	Hrs.
VISUAL & PERFORM ARTS	Visual and Performing Arts	3
MATH 2433	Calculus III	4
PHYS 1322	Physics II	3
CHEE 1331	Computing for Engineers	3
PETR 2311	Reservoir Petrophysics	3
Total Hours	Second Year Fall Semester	16
Second Year Spring Semester		
Course #	Course	Hrs.
HIST 1377	US History to 1877	3
MATH 3321	Engineering Mathematics	3
CHEE 2331	Chemical Processes	3
PETR 3313	Reservoir Fluids	3
INDE 2333	Engineering Statistics I	3
Total Hours	Second Year Spring Semester	15
Third Year Fall Semester		
Course #	Course	Hrs.
HIST 1378	US History Since 1877	3
ENGI 2304	Technical Communication	3
MECE 3400	Introduction to Mechanics	4
CHEE 2332	Thermodynamics I	3
PETR 3362	Reservoir Engineering I	3
PETR 3315	Introduction to Well Logging	3
Total Hours	Third Year Fall Semester	19

Third Year Spring Semester		
Course #	Course	Hrs.
POLS 1336	US Government	3
CHEE 3363	Fluid Mechanics for Chemical Engineers	3
PETR 3321	Petroleum Transient Testing	3
PETR 3318	Well Drilling and Completion I	3
PETR ELECTIVE	PETR Elective	3
Total Hours	Third Year Spring Semester	15
Fourth Year Fall Semester		
Course #	Course	Hrs.
POLS 1337	US Government	3
PETR 4311	Petroleum Engineering Capstone Lab	3
PETR 5324	PETR Module 1: Course 1: Theory of Reservoir	3
PETR 5310	PETR Module 2: Course 1: PETR Production Economics	3
PETR 5350	PETR Module 2: Course 2: Natural Gas	3
Total Hours	Fourth Year Fall Semester	15
Fourth Year Spring Semester		
Course #	Course	Hrs.
HUMANITIES	Humanities Core	3
SOC&BEH SCI	Social & Behavioral Science-Core	3
PETR 5392	Project Management	3
PETR 5302	PETR Module 1: Course 2: Reservoir Engineering II	3
PETR 5325	PETR Module 1: Course 3: Integrated Reservoir Characterization	3
PETR 5372	PETR Module 2: Course 3: PETR Production Operation	3
Total Hours	Fourth Year Spring Semester (Module 2 or Module 3)	18
TOTAL HRS	TO GRADUATE=	127

Note: Module 1 - required of all students; Students have a choice to complete all courses in the Module 2 Option or all courses in Module 3 Option to complete their degree requirements.