

DETAILS-

PETROLEUM ENGINEERING UNDERGRAD DEGREE PLAN FOR ADVISING-2013

please use in association with the SUMMARY Degree Plan

TRM	COURSE #	DESCRIPTION	HRS	PRE/COREQ'S
FA 1	ENGL 1303	Freshman Composition	3	Core
FA 1	MATH 1431	Calculus I	4	math placement test score >65// otherwise prereq-MATH 1330
FA 1	GEOL 1330	Physical Geology	3	Core
FA 1	CHEM 1331	Fund. of Chemistry - Lecture	3	math placement test score >65//OR MATH 1330
FA 1	CHEM 1111	Fund. of Chemistry Lab	1	Credit for or concurrent enrollment in CHEM 1331
FA 1	PETR 1100	Introduction to Petroleum Engineering	1	Admission as engineering college major
FA 1	Total Hours		15	
SPR 1	ENGL 1304	Freshman Composition II	3	Core
SPR 1	MATH 1432	Calculus II	4	MATH 1431
SPR 1	PHYS 1321	Physics I	3	Credit for or concurrent enrollment in MATH 1432
SPR 1	CHEM 1332	Fund. of Chemistry II - Lecture	3	CHEM 1331, MATH 1330 or equivalent
SPR 1	CHEM 1112	Fund. of Chemistry Lab	1	CHEM 1111, Credit for or concurrent enrollment CHEM 1332, 1111
SPR 1	CHEE 1331	Computing for Engineers	3	MATH 1431
SPR 1	Total Hours		17	
FA 2	VISUAL & PERFORM ARTS	Visual and Performing Arts	3	Core- see approved core curriculum list
FA 2	HIST 1378	US History Since 1878	3	Core
FA 2	MATH 2433	Calculus III	4	MATH 1431, 1432
FA 2	PHYS 1322	Physics II	3	PHYS 1321 & credit for or concurrent enrollment in MATH 2433
FA 2	PETR 2311	Reservoir Petrophysics	3	MATH 1432, PHYS 1321 & Credit for or concurrent enrollment in Phys 1322
FA 2	Total Hours		16	
SPR 2	HIST 1377	US History to 1877	3	Core
SPR 2	MATH 3321	Engineering Mathematics	3	MATH 1431, 1432
SPR 2	CHEE 2331	Chemical Processes	3	CHEE 1331, CHEM 1332, MATH 2433, and PHYS 1321
SPR 2	PETR 3313	Reservoir Fluids	3	CHEM 1332, MATH 3321, PHYS 1322 , PETR 2311
SPR 2	INDE 2333	Engineering Statistics I	3	MATH 1431, 1432, CHEE 1331 or concurrent enrollment
	Total Hours		15	

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FA 3	ENGI 2304	Technical Communication	3	ENGL 1304, admission to ENGR, and CHEE 1331
FA 3	MECE 3400	Introduction to Mechanics	4	PHYS 1321// and credit for or concurrent enrollment in MATH 3321.
FA 3	CHEE 2332	Thermodynamics I	3	CHEM 1332, CHEE 2331, MATH 2433 and PHYSICS 1321
FA 3	PETR 3362	Reservoir Engineering I	3	PETR 2311, 3313 & PHY 1321
FA 3	PETR 3315	Introduction to Well Logging	3	PHYS1322, MATH 2433 & PETR 2311, 3313
FA 3	Total Hours		16	
SPR 3	POLS 1336	US Government	3	Core
SPR 3	* PETR TECHNICAL ELECTIVE	SEE APPROVED ELECTIVE LIST	3	Students must meet the individual course requirements for any approved elective chosen to fulfill the PETR TECHNICAL ELECECTIVE requirement
SPR 3	CHEE 3363	Fluid Mechanics for Chemical Engineers	3	CHEE 2332, MATH 3321, credit for or concurrent enrollment in CHEE 3334 or INDE 2333
SPR 3	PETR 3321	Petroleum Transient Testing	3	PETR 2311, 3313, MATH 3321
SPR 3	PETR 3318	Well Drilling and Completion I	3	MATH 3321, PETR 2311 , 3313, credit for or concurrent enrollment : CHEE 3363
SPR 3	Total Hours		15	
FA 4	POLS 1337	US Government	3	Core
FA 4	SOC&BEH SCI	Social & Behavioral Science-Core	3	Core - see approved core curriculum list
FA 4	PETR 5392	Project Management	3	PETR 2311, 3313- Jr or Sr standing in PETR courses
FA 4	PETR 5324	Theory of Reservoir	3	MATH 3321, CHEE 2332 & PETR 2311, 3313
FA 4	PETR 5310	Petroleum Production Economics	3	PETR 2311, 3313, 3362
FA 4	PETR 5350	Natural Gas	3	PETR 2311, 3313, 3362
FA 4	Total Hours		18	
SPR 4	HUMANITIES	Humanities Core	3	Core
SPR 4	PETR 4311	Petroleum Engineering Capstone Lab	2	Prerequisites: PETR 3315, 3318, 3321, 3362.
SPR 4	PETR 5302	Reservoir Engineering II	3	PETR2311, 3313, 3362
SPR 4	PETR 5325	Integrated Reservoir Characterization	3	PETR 2311, 3313, 3315
SPR 4	PETR 5372	Production Oper	3	PETR 2311, 3313, 3315, 3318, 3321
SPR 4	Total Hours		15	
		TOTAL HRS TO GRADUATE= 127		

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*	<u>ELECTIVES</u>	<u>ELECTIVES CRS NAME: All Below</u>		
	<u>CRS#</u>	<u>Approved by Dr. Holley</u>		<u>ELECTIVES PRE //CO REQUISITES</u>
	CHEE 3300	Materials Science and Engineering I		CHEE 2331, CHEM 1332, PHYS 1321 & credit for or concurrent enrollment in MATH 3321
	CHEE 3333	Thermo II		CHEE 3333 Prerequisites: CHEE 2332;
	CHEM 3331	Fundamentals of Organic Chemistry (Must be taken at UH)		CHEM 1332
	CIVE 2330	Mechanics I (Statics)		PHYS 1321// credit for or concurrent enrollment in : CHEE 1331, MATH 2433
	CIVE 2332	Mechanics of Deformable Solids		CIVE 2330, MATH 2433// credit for or concurrent enrollment in : MECT 3341
	CIVE 3331	Environmental Engineering		CHEM 1112, 1332, CIVE 2330, ENGI 2304, credit for or concurrent enrollment in ENGI 2334-Thermo
	CIVE 3337	Structural Analysis		CIVE 2332
	CIVE 3339	Geotechnical Engineering		CIVE 2332; ENGI 2304//credit for or concurrent enrollment in MATH 3321
	ECE 3336	Introduction to Circuits and Electronics		PHYS 1322 and MATH 2433, and XXXX 1331
	INDE 3333	Engineering Economy I		INDE 2333 <i>or</i> MECE 3360
	GEOL 3331	Environmental Geology		GEOL 1130 and GEOL 1330
	GEOL 3333	Earth Resources		GEOL 1330.
	GEOL 4330	Introduction to Geophysics		GEOL 1330, MATH 2433 and PHYS 1322.
	GEOL 4331	Introduction to Geographic Information Systems		upper division standing in NSM or consent of instructor; and some previous computer experience.
	GEOL 4380	Petroleum Seismic Exploration		GEOL 4340
	GEOL 4382	Petroleum Geology		GEOL 3345 and concurrent enrollment in 3350.
	MECE 2336	Mechanics I		PHYS 1321, and credit for or concurrent enrollment in : MATH 2433
	MECT 3341	Computer Aided Drafting I		MATH 1330 and COSC 1304 or equivalent
	PETR 5300	Mining and Database Mgt.		MATH 3321 & PETR 2311