

NOTE--(1) ABET requirements must be met			
(2) If prerequisite requirements change, then the new prerequisites must be honored. Please verify prerequisite by checking online in the catalog at <a href="http://catalog.uh.edu/">http://catalog.uh.edu/</a>			
<b>ELECTIVES CRS#</b>	<b>ELECTIVES CRS NAME: Approved by Dr. Soliman</b>	<b>HR S</b>	<b>ELECTIVES PRerequisite //CON-current enrollment</b>
CIVE 3331	Environmental Engineering	3	CHEM 1332,1112, CIVE 2330 and credit for or concurrent enrollment in MECE 2334
ENRG 3310	Introduction to Energy & Sustainability	3	Junior standing
INDE 3333	Engineering Economy I	3	INDE 2333 or MECE 3360
MATH 3363	Introduction to Partial Differential Equations		MATH 2433 and either MATH 3321 or MATH 3331.
MATH 4364	Introduction to Numerical Analysis		MATH 1432, 2331
MATH 4335	PARTIAL DIFFERENTIAL EQUATIONS I		MATH 3331 or consent of instructor.
MATH 4377	ADVANCED LINEAR ALGEBRA I		MATH 2331 and a minimum of three semester hours of 3000-level mathematics.
MATH 4378	ADVANCED LINEAR ALGEBRA II		MATH 4377
MECT 3341	AUTOCAD		ENGL 1304; ENGI 1331
PETR 5302	Reservoir Engineering II		PETR 3362
PETR 5350	Natural Gas	3	PETR 3362.
PETR 5397	Unconventional Shales		PETR 3315, 3318, 3362 and 3372
PETR 5397	Shale Reservoirs	3	PETR 3315, 3318, 3362 and 3372
PETR 5397	Completion & Stimulation	3	PETR 3315, 3318, 3362 and 3372
PETR 5397	Risk Analsis Methods in PETR	3	PETR 3315, 3318, 3362 and 3372
<b>GEOSCIENCE CRS#</b>	<b>GEOSCIENCE CRS NAME: Approved by Dr.Soliman</b>	<b>HR S</b>	<b>ELECTIVES PRerequisite // and or CON-current enrollment</b>
GEOL 4330	Introduction to Geophysics	3	GEOL 1330, MATH 2433 and PHYS 1322.
GEOL 4397	SELECTED TOPICS:Petroleum Geology for Petroleum Engineers		PETR 2311, 2313
	<b>* if planning on declaring a minor, be sure to get advising from both departments</b>		<b>*NOTE any other elective outside the approved list will need Dr. Soliman's permission prior to taking the class. It should pertain to petroleum engineering and be a jr/sr class. He requires a syllabus of the class to be emailed along with the request for approval for any petroleum student seeking review. Also more PETR classes will be offered as electives.</b>