

# FALL 2018

## APPROVED Electives-FALL 2018.xlsx

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 <http://catalog.uh.edu/>

<b>ELECTIVES CRS#</b>	<b>ELECTIVES CRS NAME: Approved by Dr. Soliman</b>	<b>HRS</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
MATH 3363	Introduction to Partial Differential Equations	3	MATH 2433 and either MATH 3321 or MATH 3331.
MATH 4364	Introduction to Numerical Analysis	3	MATH 1432, 2331
MATH 4335	PARTIAL DIFFERENTIAL EQUATIONS I	3	MATH 3331 or consent of instructor.
MATH 4377	ADVANCED LINEAR ALGEBRA I	3	MATH 2331 and a minimum of three semester hours of 3000-level mathematics.
PETR 5302	Reservoir Engineering II (fall)	3	PETR 3362
PETR 5340	Unconventional Energy Resources (spr)	3	PETR 3315, 3318, 3362 and 3372
PETR 5350	Natural Gas (fall )	3	PETR 3362
PETR 5352 (5397)	Shale Reservoirs (fall)	3	PETR 3315, 3318, 3362 and 3372
PETR 5356	Completion & Stimulation (spr)	3	PETR 3315, 3318, 3362 and 3372
PETR 5397	Data Analytics for Petroleum Engineers (fall)		INDE 2333, MATH 3321; SR Standing in Petr
<b>GEOSCIENCE CRS#</b>	<b>GEOSCIENCE CRS NAME: Approved by Dr.Soliman</b>	<b>HRS</b>	<b>ELECTIVES PRerequisite // and or Con-current enrollment</b>
GEOL 4330	Introduction to Geophysics (fall&spr)	3	GEOL 1330, MATH 2433 and PHYS 1322.
GEOL 4331	GIS (GEOGRAPHIC INFO SYS) (spr)	3	see UH catalog
GEOL 4386	Petroleum Geoscience for Petroleum Engineers (fall)	3	GEOL 1330/1130;PETR 2311, 2313
	<b>* if planning on declaring a minor, be sure to get advising from both departments</b>		