

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/			
ELECTIVE CRS #	ELECTIVE CRS NAME	HRS	ELECTIVE PRerequisite // CON-current enrollment required
MATH 3363	Introduction to Partial Differential Equations	3	MATH 2415 and either MATH 3321 or MATH 3331.
MATH 4335	Partial Differential Equations I	3	MATH 3331, or equivalent, and three additional hours of 3000-4000 level Mathematics
MATH 4364	Introduction to Numerical Analysis in Scientific Computing	3	MATH 3331 or Math 3321
MATH 4377	ADVANCED LINEAR ALGEBRA I	3	MATH 2318 and Math 3325 and a minimum of three semester hours of 3000-level mathematics.
PETR 5302	Reservoir Engineering II	3	PETR 3362
PETR 5340	Unconventional Resource Engineering	3	PETR 3315, 3318, 3362 and 3372
PETR 5342	Carbon Capture Utilization & Sequestration (CCUS)	3	JR Standing
PETR 5346	Energy Transition	3	JR Standing
PETR 5348	Geothermal Resource Engineering	3	JR Standing
PETR 5350	Natural Gas Engineering	3	PETR 3362
PETR 5352	Shale Reservoirs	3	PETR 3315, 3318, 3362 and 3372
PETR 5356	Completion & Stimulation	3	PETR 3315, 3318, 3362 and 3372
PETR 5397	Intro to Petroleum Data Analytics		INDE 2333, MATH 3321; JR/SR Standing
GEOSCIENCE CRS#	GEOSCIENCE CRS NAME	HRS	ELECTIVE PRerequisite // and or Con-current enrollment
GEOL 3320	Principles of Geophysics	3	GEOL 1303, MATH 2413
GEOL 4331	GIS (Geospatial Analysis and Application)	3	Math 2413
GEOL 4383	Elements of Reservoir Geophysics		GEOL 3320
GEOL 4386	Petroleum Geoscience for Petroleum Engineers	3	GEOL 1303/1103; PETR 2311, 2313
* if planning on declaring a minor, be sure to get advising from both departments			* Any SELECED TOPICS course (4397, 5397, 6397) this is a generic number and the NAME of the course determines correct selection of 4397, 5397 or 6397