

FALL 2024

APPROVED Electives-FALL 2024

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/			
ELECTIVES CRS#	ELECTIVES CRS NAME: Approved by Dr. Soliman	HRS	ELECTIVES PRerequisite //CON-current enrollment required
ENRG 3310	Inroduction 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	Shale Reservoirs (fall)	3	PETR 3315, 3318, 3362 and 3372
PETR 5356	Completion & Stimulation (spr)	3	PETR 3315, 3318, 3362 and 3372
PETR 5397	Geothermal Resources (spr)	3	JR/SR Standing in PETR
PETR 5397	Energy Transition (fall)	3	JR/SR Standing in PETR
PETR 5397	CCS:/CCUSWInegrated course on CCUS-Food-Energy-Watse (FEW) System (fall)	3	JR/SR Standing in PETR
PETR 5397	Property Evaluation of Hydrocarbons and Alternative Energy (spr)	3	JR/SR Standing in PETR
PETR 5397	PETR FLD PROPERTY & PHASE EQUILIBRIA		JR/SR Standing in PETR
PETR 5397	Intro to Petroleum Data Analytics (fall)		INDE 2333, MATH 3321; JR/SR Standing in Petr
GEOSCIENCE CRS#	GEOSCIENCE CRS NAME: Approved by Dr.Soliman	HRS	ELECTIVES PRerequisite // and or Con-current enrollment
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 4383	Elements of Reservoir Geophysics (spr)		GEOL 4330
GEOL 4386	Petroleum Geoscience for Petroleum Engineers (fall)	3	GEOL 1330/1130;PETR 2311, 2313
	* if planning on declaring a minor, be sure to get advising from both departments		* Any SELECTIC TOPICS coures(4397, 5397, 6397) this is a generic number and the NAME of the course determines correct selection of 4397, 5397 or 6397