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Concentration Code 259E

١.		_		JRRICULUM 12/1120 fulfill the Science Inquiry perspe					ŀ	
II.	MAJOR REQUIREMENTS (not including 12 hours counted in Area I, above)									
Α.	Geology (31 semester hours):									
	Choose one 1000-level geology course:									
			_	roduction to Physical Geology		GLY 1104	(4)	Water: Mountains to Sea		
	GLY 1102			roduction to Historical Geology		GLY 1105		Oceanography		
	GLY 1103	(4)	Env	vironmental Change, Hazards, & Re	sources					
	GLY 2250		(4)	Evolution of the Earth (Pre: GLY 1103	1, 1102, 1103	, 1104, or 1105)				
GLY 2745(4) Preparation of Geologic Reports [WID						ENG 2001; GLY 2250)				
	GLY 3150		(3)	Principles of Structural Geology a	nd Tectoni	CS (Pre: GLY 2250, 27	45)			
	GLY 3220		(3)	Fundamentals of Mineralogy (Pre:	GLY 2250)					
	GLY 3715		(3)	Petrology and Petrography (Pre: CH	IE 1101/1110	; GLY 2250, 2745, 322	20)			
	GLY 3800		(3)	Sedimentology and Stratigraphy (Pre: GLY 2250	0)				
				Geology Seminar [CAP] (Pre: Senior						
	GLY 4835		(6)	Summer Field Geology or other ap	oproved fie	eld course (Pre: GL)	3150, 3715,	3800)		
в.	Quantitative G	eoscier	nce	concentration (15 semester hours)					
	GLY 3131		(3)	Geochemistry (Pre: GLY 2250; CHE 110	01/1110; MAT	T 1110)				
PHY/GLY 3160 (3) Introduction to Geophysics (Pre: 1 intro GLY; PHY 1101; MA										
	GLY 4630		(3)	Hydrogeology (Pre: 6 s.h. GLY ≥ 2000;	Ir. standing)					
	GLY 4705	GLY 4705 (3) Advanced Environmental & Engineering Geology (Pre: 6 s.h. GLY ≥ 2000; Jr. standing)								
	Plus choose 3 s.h. from the following courses:									
	GLY 3025		(3)	Principles of Paleontology (Pre: GLY	' 2250; 6 sh B	IO or ANT ≥ 2000 leve	I)			
	GLY 3333		(3)	Geomorphology (Pre: 6 sh GLY)						
	GLY 3680		(3)	Geoarchaeology (Pre: 4 sh GLY)						
	GLY 4501		(1-3	3) Senior Research (Pre: Sr. standing; m	in GPA 3.25 i	n GLY)				
	GLY 4510		(3)	Senior Honors Thesis (Pre: GLY 4501;	Sr. standing;	min GPA 3.25 in GLY))			
c.			-	/Physics (33 hours)						
				earn the math minor. The extra MAT course			tive below.)			
				Calculus with Analytic Geometry I						
				Calculus with Analytic Geometry I						
	MAT 2130		٠,	Calculus with Analytic Geometry I	•		•			
	MAT 2240			Intro to Linear Algebra (Pre: MAT 11	-	MAT 3130		o Differential Equations (Pre: MAT		
	-			Introductory Chemistry I & Lab		E 1102/1120	,	Chem II & Lab (<i>Pre: CHE 1101/111</i>	0	
	PHY 1150		(5)	Analytical Physics I (Co: MAT 1110)	AND	PHY 1151	(5) Analy	tical Physics II (Co: MAT 1120)		
D.				ours from the following:						
				Geospatial Data & Technology						
				Environmental Remote Sensing						
				Intro to GIS (Pre: GHY 2310, 2812)						
	GHY 4812			Advanced GIS (Pre: GHY 3812)	Cai /a	01V 2250 144 T 4440	0.0.4450)			
				Quant Data Analysis for Earth & E		GLY 2250; MAT 1110;	PHY 1150)			
	STT 2810			Introduction to Statistics (Pre: MAT						
	STT 3820			Statistical Methods I (Pre: STT 2810/						
	CS 1440			Computer Science (Pre: MAT 1020/			T 4020 (405			
		CS 1445(4) Intro to Programming w/Interdisciplinary Applications (Pre: MAT 1020/1025 w/minimum grade "C-")								
	-	During the senior year the B.S. (non-teaching) student must take and achieve a satisfactory score on a COMPREHENSIVE EXAMINATION covering theoretical and practical aspects in areas of geology. Students who are unsuccessful on portions or all of the examination may retake								
	_			wo additional times prior to graduation		c ansuccessial on ρ	ortions or u	a of the examination may retake		
				prior to graduation						
	. MINOR (optior	-								
IV	. ELECTIVES (ta	ken to	to	tal 122 hours for the degree)				4- <u>5</u>	<u> </u>	

2 semester hours of free electives must be outside the major discipline.