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

Concentration Code 259E

l.				fulfill the Science Inc					44 racy.	
II.	2.0 major GPA is r	MAJOR REQUIREMENTS (not including 12 hours counted in Area I, above)								
A.	Geology (31 semester hours): Change and introductory geology course:									
		Choose one introductory geology course: GLY 1101 (4) Introduction to Physical Geology GLY 1104 (4) Water:						Water: Mountains to Sea		
		, ,							Water: Mountains to Sea	
		1102 (4) Introduction to Historical Geology GLY 1105 (4) Oceanography 1103 (4) Introduction to Environmental & Applied Geology							Осеановтарну	
	GLY 2250(4) Evolution of the Earth (Pre: GLY 1101, 1102, 1103, 1104, or 1105)									
	GLY 2745 (4) Preparation of Geologic Reports [WID] (Pre: ENG 2001; GLY 2250) GLY 3150 (3) Principles of Structural Geology and Tectonics (Pre: GLY 2250, 2745)									
GLY 3220 (3) Fundamentals of Mineralogy (Pre: GLY 2250)										
	GLY 3715		_(3) Petrology and Petrography (Pre: CHE 1101/1110; GLY 2250, 2745, 3220)							
	GLY 3800		(3) Introduction to Stratigraphy and Sedimentology (Pre: GLY 2250)							
	GLY 4210		(1) Geology Seminar [CAP] (Pre: Senior Standing)							
	GLY 4835	(6) Summer Field Geology or other approved field course (Pre: GLY 3150, 3715, 3800)								
В.	Quantitative Geoscience concentration (15 semester hours)									
	GLY 3131			hemistry (Pre: GLY 22						
PHY/GLY 3160 (3) Introduction to Geophysics (Pre: 1 intro GLY; PHY 1101; MAT 1110)										
	GLY 4630		(3) Hydrogeology (Pre: 6 s.h. GLY ≥ 2000; Jr. standing)							
	GLY 4705	(3) Advanced Environmental & Engineering Geology (Pre: 6 s.h. GLY ≥ 2000; Jr. standing)								
	Plus choose 3			_						
	GLY 3025		(3) Principles of Paleontology (Pre: GLY 2250; 6 sh BIO or ANT ≥ 2000 level)							
	GLY 3333			Geomorphology (Pre: 6 sh GLY)						
	GLY 3680			Geoarchaeology (Pre: 4 sh GLY)						
GLY 4501(1) Senior Research (Pre: Sr. standing; min GPA 3.25 in GLY)										
	GLY 4510(3) Senior Honors Thesis (Pre: GLY 4501; Sr. standing; min GPA 3.25 in GLY)									
C.	-	Mathematics/Chemistry/Physics (33 hours)								
(Taking all 5 math courses will earn the math minor. The extra MAT course will count as a non-GLY course elective below.) MAT 1110 (4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-) MAT 1120 (4) Calculus with Analytic Geometry II (Pre: MAT 1110 w/min grade of C-) MAT 2130 (4) Calculus with Analytic Geometry III (Pre: MAT 1120 w/min grade of C-) MAT 2240 (3) Intro to Linear Algebra (Pre: MAT 1120) OR MAT 3130 (3) Intro to Differential Equation										
							o Differential Equations (Pro: MAT 1120)			
	CHE 1101/1110			Intro to Linear Algebra (Pre: MAT 1120) OR MAT 3130 (3) Intro to Differential Equations (Pre: MAT 1120) Introductory Chemistry I & Lab AND CHE 1102/1120 (4) Intro Chem II & Lab (Pre: CHE 1101/1110						
	PHY 1150			tical Physics I (Co: N		AND	PHY 1151		tical Physics II (Co: MAT 1120)	
D.				·		72		_(0)/	(4.04. 1.170.00 1. (60.777.1. 1115)	
	Color Six semester hours from the following: GHY 2812 (3) Geospatial Data & Technology GHY 3310 (3) Environmental Remote Sensing GHY 3812 (3) Intro to GIS (Pre: GHY 2310, 2812)									
GHY 4812 (3) Advanced GIS (Pre: GHY 3812)										
STT 2810 (3) Introduction to Statistics (<i>Pre: MAT 1010</i>)										
STT 3820 (3) Statistical Methods I (<i>Pre: STT 2810/2820</i>)										
CS 1425 (3) Overview of Computer Science (Co: MAT 1020/1025) CS 1440 (4) Computer Science I (Pre: MAT 1020/1025 w/minimum grade "C-") CS 1445 (4) Intro to Programming w/Interdisciplinary Applications (Pre: MAT 1020/1025 w/minimum grade "C-")										
								5 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								
	-	overing theoretical and practical aspects in areas of geology. Students who are unsuccessful on portions or all of the examination may retake								
	appropriate por	propriate portions up to two additional times prior to graduation.								
III.	. MINOR (optio	onal)								
IV.	. ELECTIVES (ta	aken to	total 12	2 hours for the d	egree)				<u>5</u>	