Bachelor of Science (BS) Non-Teaching Degree Code 259* Concentration Code 259E			-	2016-2017 Program		-	am of Study for Geology Majors QUANTITATIVE GEOSCIENCE			
١.										
	Chemistry 1101/	1110 & 11	02/1120 fulfill the Scienc	e Inquiry. MAT 1110 fulfi	lis Quantitative Litera	су.				
II.	2.0 major GPA is re	equired for		culation will include <u>all</u> cou	rses taken in the major	department, pl	us any other courses under II.			
A.	Geology (31 se	mester h	ours):							
	Choose one 10	00-level	geology course:							
	GLY 1101		troduction to Physical		GLY 1104		Water: Mountains to Sea			
	GLY 1102	- • •	troduction to Historica		GLY 1105	(4)	Oceanography			
	GLY 1103	_(4) E	nvironmental Change,	Hazards, & Resources						
	GLY 2250		l) Evolution of the Ear							
			4) Preparation of Geologic Reports [WID] (Pre: RC 2001; GLY 2250)							
			Principles of Structural Geology and Tectonics (Pre: GLY 2250, 2745)							
			Fundamentals of Mineralogy (Pre: GLY 2250)							
				Petrology and Petrography (Pre: CHE 1101 & 1110; GLY 2250, 2745, 3220)						
	GLY 3800		<ol> <li>Sedimentology and</li> </ol>	• • • •	250 & 2745)					
		•	) Geology Seminar [C	• ·						
	GLY 4835	(6	<ol><li>Summer Field Geolo</li></ol>	ogy or other approved	field course (Pre: GL)	/ 3150, 3715, 38	300)			
в.	Quantitative G	eoscienc	e concentration (18 se	emester hours)						
	GLY 3131	(3	B) Geochemistry (Pre: G	GLY 2250; CHE 1101 & 1110;	MAT 1110)					
	PHY/GLY 3160	(3	<ol> <li>Introduction to Geo</li> </ol>	physics (Pre: 1 intro GLY; I	РНҮ 1103/1150; MAT 11	10)				
	ENV/GLY 3455	(3	3) Quantitative Data A	nalysis for Earth & Env	/ Sci (Pre: GLY 2250; MA	AT 1110; PHY 11	.50)			
	GLY 4630	(3	B) Hydrogeology (Pre: G	GLY 2250; MAT 1110; PHY 11	03 or 1150)					
	GLY 4705	(3	<ol><li>Advanced Environm</li></ol>	ental & Engineering G	eology (Pre: 6 s.h. GLY	≥ 2000; Jr. stan	ding)			
	Plus choose 3 s	s.h. from	the following courses:	:						
	GLY 3025	(3	<ol><li>Principles of Paleon</li></ol>	tology (Pre: GLY 2250; 6 sł	n BIO or ANT ≥ 2000 leve	1)				
	GLY 3333	(3	<ol> <li>Geomorphology (Press)</li> </ol>	e: 6 sh GLY)						
	GLY 3680	(3	<ol> <li>Geoarchaeology (Press)</li> </ol>	e: 4 sh GLY)						
	GLY 4501	•	L-3) Senior Research (Pr	-						
	GLY 4510	(3	<ol> <li>Senior Honors Thesi</li> </ol>	iS (Pre: GLY 4501; Sr. standii	ng; min GPA 3.25 in GLY)	)				
с.	Mathematics/0	Chemistr	y/Physics/Statistics (3	9 hours)						
			l earn the math minor. The e			tive below.)				
	MAT 1110		I) Calculus with Analy							
	MAT 1120		I) Calculus with Analy							
	MAT 2130		I) Calculus with Analy							
	MAT 2240		<ol> <li>Intro to Linear Algel</li> </ol>				Differential Equations (Pre: MAT 1120)			
	CHE 1101/1110		I) Introductory Chemi		CHE 1102/1120		Chem II & Lab (Pre: CHE 1101 & 1110			
	PHY 1150		5) Analytical Physics I (		PHY 1151	(5) Analyt	ical Physics II <i>(Co: MAT 1120)</i>			
	STT 2810	•	3) Introduction to Stat		gher)					
			ours from the followin	-						
	STT 3820		B) Statistical Methods							
	CS 1440		<ul> <li>Computer Science I</li> <li>Intro to Programming</li> </ul>			T 4000 /4000				
	CS 1445		<ol> <li>Intro to Programmin</li> <li>Intro to Lincor Algol</li> </ol>							
	MAT 2240		<ol> <li>Intro to Linear Algel</li> <li>Advisor approved so</li> </ol>				o Differen Eqtns (Pre: MAT 1120)			
	Elective		B) Advisor-approved co B.S. (non-teaching) stude							
							of the examination may retake			
			two additional times pric							

## III. MINOR (optional)

IV.	ELECTIVES (taken to total 122 hours for the degree)	<u>2</u>
	2 semester hours of free electives must be outside the major discipline.	122