## **Concentration Code 259C**

I.		N CURRICULUM			
		ble-counted in the major. Please see your advisor for infor		5	
II.		IAJOR REQUIREMENTS (not including 12 hours counted in Area I)			
Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.				achian.	
A.		ourses (19 semester hours)			
	Choose one 1000-lev	= =:	CIV 4404	(4)	
		Introduction to Physical Geology	GLY 1104		
		Introduction to Historical Geology		(4) Oceanography	
	GLY 1103 (4) Environmental Change, Hazards, & Resources				
	GLY 2250 (4)	Evolution of the Earth (Pre: GLY 1101,1102,1103	,1104, or 1105)		
	GLY 2745(4)	Preparation of Geologic Reports [WID] (Pre: RC 2001, GLY 2250)			
	GLY 3150 (3)	Principles of Structural Geology and Tectonics (Pre: GLY 2250, 2745)			
	GLY 3800 (3)	Sedimentology and Stratigraphy (Pre: GLY 225	50 & 2745)		
	GLY 4210 (1)	=			
_	Fundamental Caple				
В.	Environmental Geology courses (24 semester hours)  GLY 3131 (3) Geochemistry (Pre: GLY 2250, CHE 1101/1110, MAT 1110)				
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		Introduction to Geophysics ( <i>Pre/Co: GLY 1101,1102,1103,1104, 1105, or 1510; PHY 1103 or 1150; MAT 1110</i> ))			
		Geomorphology (Pre: 6 sh GLY)			
	: :	Issues in Environmental Geology (Pre: 6 sh GL)			
		Hydrogeology (Pre: GLY 2250; MAT 1110; PHY 1103			
GLY 4705 (3) Advanced Environmental and Engineering Geology ( <i>Pre: 6 s.h. GLY</i> $\geq$ 2000; <i>Jr. standing</i> ) Plus choose 6 sh from the following:				; Jr. standing)	
Plu					
	GLY 3025 (3)	Principles of Paleontology (Pre: GLY 2250 or 6 sh	BIO or ANT ≥ 2000)		
	GLY 3220 (3)	Fundamentals of Mineralogy (Pre: GLY 2250)			
ENV/GLY 3455 (3) Quantitative Data Analysis for Earth & Env Scientists (Pre: GLY 2250; I				T 1110; PHY 1150)	
	GLY 3680 (3)	Geoarchaeology (Pre: 4 sh GLY)			
	GLY 3715 (3) Petrology and Petrography ( <i>Pre: CHE 1101/1110; GLY 2250, 2745, 3220</i> )				
		S) Senior Research (Pre: Sr standing; min GPA 3.25 in GLY)			
	GLY 4510 (3)				
	GLY 4835 (6)	Summer Field Geology (Pre: GLY 3150, 3715, 380	0)		
C.	Math/Chemistry/Phy	ysics courses (19 semester hours)			
		Introductory Chemistry I & Lab			
		Introductory Chemistry II & Lab (Pre: CHE 110	1/1110)		
	MAT 1110(4) Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade C-)				
	PHY 1103(4)	General Physics I (Co: MAT 1020/1025)			
	STT 2810(3)	Introduction to Statistics (Pre: MAT 1010 or hig	her)		
D.	Associated Environmental Electives (Choose 12 semester hours from the following)				
٠.	ECO 2620(3)	-		(3) Env'l Mgmt & Impact Analysis	
	FIN 3010 (3)	Survey of Finance (Pre: 84 earned hours)		(3) Environmental Policy & Planning	
F٨	IV/GLY 3110 (3)	Env Regulation & Enforcement		(3) State and Local Government	
LI	Elec (3)				
	(5)	Advisor approved, computer intensive cou	13 4070	(3) Environmental Fondes	
F.	Courses in Cartogran	ohy & Geographic Information Systems (GIS)	Choose 12 semester hou	urs from the following)	
	<u> </u>	Geospatial Data & Technology	•	3) Intro to GIS ( <i>Pre: GHY 2310, 2812</i> )	
0	GHY 3310 (3)	Environmental Remote Sensing		3) Advanced GIS ( <i>Pre: GHY 3812; Sr stdg</i> )	
	GHY 4814 (3)			7, Mavaneca 313 (17c. 377 3512, 37 31ag)	
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	During the senior year, the B.S. Geology with an Environmental Geology concentration student must take and achieve a satisfactory score on a comprehensive examination covering theoretical and practical aspects of areas of geology. Students who are unsuccessful on any portion or all of the examination may retake the appropriate portion(s) up to two additional times before graduation.				
III.	MINOR (optional)				
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IV.		total 122 hours for the degree)free electives must be outside the major disc		<u>4</u> 122	
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