COLLEGE OF GEOSCIENCES TEXAS A&M UNIVERSITY

BACHELOR OF SCIENCE IN ENVIRONMENTAL GEOSCIENCES CATALOG 131

STUDEN	т•		CATA	LOG 131 HOME DE	PARTME	NT• Env	ironmental Programs, College of Ge	osciences	
COURSE	# SEM	SUBJECT	HRS	CRS	#	SEM	SUB/TRAN	HRS	
				CRB	"	DEN	SOBIRM	ms	
	ATI			TECHNICAL ELECTIVES ⁴					
ATMO ATMO	201	Atmospheric Science Atmospheric Science Lab	1					3	
TOTAL H		Atmospheric Science Lab	4					3	
1011121								3	
		EOGRAPHY/GEOLOGY						3	
GEOG/ GEOL	203 or 101	Earth Surface Processes or Principles of Geology	4	TOTAL I	HRS			15	
GEOG	330	Resources and Environment	3				SCIENCE ⁵		
GEOL	420	Environmental Geology	3				SCIENCE	4	
TOTAL I	HRS		10					4	
		CEOCCIENCEC		TOTAL HRS 8				8	
GEOS	105	GEOSCIENCES Intro Environmental Geoscience	3	T		~~	A MINITOL PROSTOR		
GEOS	405	Environmental Geosciences	3	ENGL	104	<u>C0</u>	MMUNICATIONS ⁶ Composition and Rhetoric	3	
GEOS	481 ¹	Seminar ¹	1	ENGL	104		Composition and Khetoric	3	
TOTAL F	HRS		7	TOTAL	HRS			6	
		OCEANOGRAPHY							
OCNG	251	OCEANOGRAPHY Oceanography	3	****	107		CITIZENSHIP	1.0	
OCNG	252	Oceanography Lab	1	HIST HIST	105 106		History of the USA I History of the USA II	3	
TOTAL H	IRS		4	POLS	206		American National Government	3	
				POLS	207		State and Local Government	3	
CHEM	101	CHEMISTRY		TOTAL I	IRS			12	
CHEM CHEM	101	Fundamentals in Chemistry I Fundamentals in Chemistry II	4	4					
TOTAL H		1 undamentals in Chemistry II	8	KINE	198		KINESIOLOGY Health and Fitness Activity	1	
				KINE	199 S/U		Required Physical Activity	1	
		EMATICS AND STATISTICS		TOTAL I		ı	1 Indian out 1 Information (10)	2	
MATH	151	Engineering Math I	4						
MATH STAT	152 303	Engineering Math II Statistical Methods	3	GEOG		IAL AN	D BEHAVIORAL SCIENCES	1.2	
			11	GEOG	GEOG 201 Intro to Human Geography TOTAL HRS			3	
		-		TOTAL IIRS					
	ENVIRON	MENTAL POLICY ELECTIVES ²	1.2		VI	SUAL A	ND PERFORMING ARTS ⁷		
	+ + + + + + + + + + + + + + + + + + + +		3	momus.	TD 0			3	
			3	TOTAL I	HRS			3	
TOTAL H	IRS	-	9				HUMANITIES ⁸		
								3	
	ENVIRON	MENTAL THEME ELECTIVES ³	3	TOTAL I	HRS			3	
	+ + + + + + + + + + + + + + + + + + + +		3						
	<u> </u>		3	TOTAL I	TOTAL HOURS FOR DEGREE 120				
			3						
mom · · ·	The last		3						
TOTAL H	1KS		15						
Residency 36 hours of	y requirement of 300- and/or 400	satisfied (see Core Curriculum and Degrate) 0-level course work successfully complete ment ign language in high school or one year is	ed in residenc	e at TAMU		kaminatio			
International and cultural diversity requirement 6 hrs., chosen from a list of approved courses, many of which also satisfy other core curriculum requirements									
	ntensive course r								

- 1. GEOS 481 can be repeated up to four times in this degree plan. Ideally it should be taken in your junior and senior years, but can also be taken in your sophomore year.
- 2. To be selected in consultation with faculty academic advisor from AGEC 350; ECON 203, 323, 412, 435; GEOG 309, 360, 406, 430; GEOS489 (The Science and Politics of Climate Change)*, PLAN 365, 414; POLS 329, 331, 340, 342, 347, 440; RENR 420; SOCI 312, 328. [*GEOS489 can *either* be taken as an environmental policy elective *or* an environmental theme elective, but not both]
- 3. Environmental theme electives. Select from list in consultation with faculty academic advisor (see below). Environmental themes include: coastal studies, water in the environment (air, land and ocean), human interaction with the land, and climate change. 15 hours of course work are taken in one of the thematic areas.
- 4. Select in consultation with faculty academic advisor.
- 5. Elect either PHYS 201 and 202 or BIOL 113/123 and BOTN 101. PHYS 201 and 202 are the appropriate science electives for the climate change theme.
- 6. Communication elective to be selected from the University Core Curriculum.
- 7. Visual and performing arts elective to be selected from the University Core Curriculum.
- 8. Humanities elective to be selected from the University Core Curriculum.

ENVIRONMENTAL THEMES AND ELECTIVES

	Coastal Studies	Water in the Environment					
ATMO 363	Intro to Atmospheric Chemistry and Air Pollution	ATMO 363	Intro to Atmospheric Chemistry and Air Pollution				
GEOG 331	Geomorphology	ATMO 475	Radar and Mesoscale Meteorology				
GEOG 370	Coastal Processes	GEOG 324	Global Climatic Regions				
GEOL 321	Urban Geology	GEOG 400	Arid Lands Geomorphology				
GEOL 440	Engineering Geology	GEOG 434	Hydrology and Environment				
GEOS 489	International Polar Year	GEOL 410	Hydrogeology				
OCNG 410	Introduction to Physical Oceanography	GEOL 451	Introduction to Geochemistry				
OCNG 451	Mathematical Modeling of Ocean Climate	GEOP 413	Near-Surface Geophysics				
		GEOS 489	International Polar Year				
		OCNG 410	Introduction to Physical Oceanography				
		OCNG 420	Introduction to Biological Oceanography				
	Human Interaction with the Land		Climate Change				
ATMO 363	Intro to Atmospheric Chemistry and Air Pollution	ATMO 363	Intro to Atmospheric Chemistry and Air Pollution				
ATMO 489	Global Biogeochemical Cycles	ATMO 324	Physical and Regional Climatology				
GEOG 301	Geography of the United States		,				
GEOG 305	Geography of Texas	ATMO 463	Air Pollution Meteorology				
GEOG 311	Cultural Geography	ATMO 489	Global Biogeochemical Cycles				
GEOG 320	The Middle East	ATMO 489	Laboratory Methods in Atmospheric Sciences				
GEOG 321	Geography of Africa	GEOG 324	Global Climatic Regions				
GEOG 323	Geography of Latin America	GEOS 410	Global Change				
GEOG 325	Geography of Europe	GEOS 411	Vegetation Response to Climate Change				
GEOG 326	Geography of East Asia	GEOS 489	International Polar Year				
GEOG 330	Resources and Environment*	GEOS 489	The Science and Politics of Climate Change				
GEOG 331	Geomorphology	OCNG 410	Introduction to Physical Oceanography				
GEOG 360	Natural Hazards	OCNG 451	Mathematical Modeling of Ocean Climate				
GEOG 400	Arid Lands Geomorphology						
GEOL 320	Geology for Civil Engineers						
GEOL 321	Urban Geology						
GEOL 440	Engineering Geology						
GEOS 489	International Polar Year						
GEOS 489	The Science and Politics of Climate Change						
*Select GEOG 201 in Earth System Science Core if choosing GEOG 330 as an environmental theme course.							