GEOSCIENCES (BIOGEOSCIENCE & PALEONTOLOGY), B.S.

Requirements for a Concentration in Biogeoscience & Paleontology

Code	Title	Hours	
Concentration Requ		riouis	
Thirteen semester hours including the following:			
GEO 3435	Invertebrate Paleontology	4	
Select nine hours fro	3 ,	9	
GEO 4322	Global Biogeochemical Cycles	3	
GEO 4324	Geomicrobiology		
GEO 4337	Paleoecology		
GEO 4388	Earth System Science		
GEO 4430	Vertebrate Paleontology		
GEO 4431	Evolutionary History of Plants		
	hours from the following:		
GEO 4373	Global Soil Systems		
GEO 4381	Paleoclimatology		
GEO 4383	Climate Change and Society I		
GEO 4384	Monsoon Climatology and		
020 4004	Paleoclimatology		
GEO 4386	Remote Sensing		
ANT 3331	Human Osteology		
ANT 4314	Human Biological Variation		
ANT 4335	The Human Fossil Record		
ANT 4380	Bioarchaeology		
ANT/BIO 4416	Human Evolutionary Anatomy		
BIO 3303	Ecology		
BIO 3320	Climate Change Biology		
BIO 3342	Molecular Cell Biology		
BIO 3350	Genomics and Bioinformatics		
BIO 3366	Foundations of Evolutionary Biology ¹		
BIO 4302	General Microbiology		
& BIO 4102	and General Microbiology Lab		
BIO 4310	Biogeography		
BIO 4317	Plant Physiology		
& BIO 4117	and Plant Physiology Lab		
BIO 4405	Limnology		
BIO 4406	Aquatic Biology		
BIO 4431			
CHE 4341	General Biochemistry		
GEO 4300	Senior Thesis		
or GEO 4302	Mentored Research Experience		
or GEO 4303	Internship		
Subtotal		13	
Required Courses in	Other Fields		
MTH 1321	Calculus I	3	

MTH 1322

Calculus II

Total Hours		35
ENV 1301 & ENV 1101	Exploring Environmental Issues and An Introduction to Environmental Analysis (Lab)	
CSI 1430	Introduction to Computer Science I with Laboratory	
BUS 2222	Introduction to Energy Commerce	
AVS 1313	Introduction to Meteorology	
ANT 1407	Introduction to Archaeology	
ANT 1404	Introduction to Human Evolution	
No more than four hours from:		
PHY 1430	General Physics II	
PHY 1420	General Physics I	
PHY 1409	General Physics for Natural and Behavioral Sciences II	
PHY 1408	General Physics for Natural and Behavioral Sciences I	
CHE 1302 & CHE 1102	Basic Principles of Modern Chemistry II and General Chemistry Laboratory II	
CHE 1301 & CHE 1101	Basic Principles of Modern Chemistry I and General Chemistry Laboratory I	
BIO 1306 & BIO 1106	Modern Concepts of Bioscience, continued and Modern Concepts of Bioscience Laboratory	
BIO 1305 & BIO 1105	Modern Concepts of Bioscience and Modern Concepts of Bioscience Laboratory	
BIO 1303	Human Ecology: Our Place in Nature	
Sixteen semester hours from the following:		
or STA 2381	Introductory Statistical Methods	

¹ BIO 3366 is a recommended course.