GEOLOGY MAJOR

The major in geology provides students with an understanding of the materials that make up the Earth, the history of the Earth, and the physical, chemical, and biological processes that have operated on and within the Earth throughout its history.

Requirements

The major consists of a minimum of sixteen courses including

Course ID	Title	Credits
EENS 1110	Planet Earth	3
EENS 1115	Planet Earth Lab	1
EENS 2220	Earth & Life Through Time	3
EENS 2225	Earth & Life Through Time Lab	1
EENS 3190	Earth Materials	4
EENS 3191	Earth Materials Lab	0
EENS 3270	Sedimentation and Strat	3
EENS 3271	Sedimentation & Strat Lab	0
EENS 3410	Structural Geology	3
EENS 3411	Structural Geology Lab	0
EENS 3990	Field Geoscience	3-8
Elective Courses		
Select four elective courses [1]		12
EENS 2060	Introductory Geography	
EENS 2020	Environmental Geology	
EENS 2070	Weather and Climate	
EENS 2080	Extreme Weather	
EENS 2090	Surface Water Hydrology	
EENS 2230	Oceanography	
EENS 2240	Geology of Our National Parks	
EENS 3050	Natural Hazards & Mitigation	
EENS 3100	Planetary Geology	
EENS 3120	Soils and Soil Formation	
EENS 3150	Intro to GIS	
EENS 3170	Geomorphology	
EENS 3180	Making Landscapes	
EENS 3550	Shark Paleobiology	
EENS 3600	Science of Climate Change	
EENS 3650	Marine Environmental Geology	
EENS 3730	Pathways to Urban Sustainability	
EENS 4030	Advanced GIS	
EENS 4040	Coastal Marine Geology	
EENS 4060	Tectonic Geomorphology	
EENS 4160	3D Stratigraphy	
EENS 4180	Intro Remote Sensing	
EENS 4230	Tectonics	
EENS 4250	Isotopes in The Environm	
EENS 4300	Groundwater Hydrology	
EENS 4320	Subsurface Geology	
EENS 4350	Geologic Dating Methods	
EENS 4360	Environmental Geochemstr	
EENS 4370	Independent Study in GIS and Remote Sensing	

EENS 4380	Remote Sensing for Env Anlys	
EENS 4390	Geospatial and Numerical Methods	
EENS 4440	Introduction to Geophysics	
EENS 4840	Earth & Planetary Geophysics	
EENS 4910	Independent Study	
EENS 4990	Honors Thesis	
COLQ 4120	The Grand Canyon	
All Majors Must Complete		
CHEM 1070 & CHEM 1075	General Chemistry I and General Chemistry Lab I	4
CHEM 1080 & CHEM 1085	General Chemistry II and General Chemistry Lab II	4
Select one of the following:		8
PHYS 1210 & PHYS 1220	Introductory Physics I and Introductory Physics II	
PHYS 1310 & PHYS 1320	General Physics I and General Physics II	
Select one of the following: [2]		4-8
MATH 1210 & MATH 1220	Calculus I and Calculus II	
MATH 1310	Consolidated Calculus	
Total Credit Hours		53-62

[1] Two of the four electives must be at or above the 3000 level.

[2] MATH 1150 and 1160 (Long Calculus sequence) may be taken instead of MATH 1210 to complete the Calculus I requirement.

Additional Information

In the junior and senior years, students preparing to enter graduate school are strongly urged to elect additional courses in their discipline; this may result in students attaining more than the total number of credits required for graduation (see Newcomb-Tulane core curriculum for provisions for earning graduate credit in the senior year). All majors are expected to participate in certain departmental activities, including field trips (held annually or semiannually) and special lecture programs given by visiting speakers.