150

GEOLOGY - 5-YEAR BACHELOR OF SCIENCE AND MASTER OF SCIENCE IN GEOLOGY

Program Requirements

First Year			
Fall		Semester	
		Credit Hours	
CHEM 119	Fundamentals of Chemistry I	4	
ENGL 104	Composition and Rhetoric	3	
GEOL 150	Introduction to the Solid Earth	4	
GEOL 180	Introduction to Geology and Geophysics	1	
MATH 151	Engineering Mathematics I	4	
WATTI	Semester Credit Hours	16	
Spring	Semester Great Hours	10	
CHEM 120	Fundamentals of Chemistry II	4	
GEOL 152	History of the Earth	4	
MATH 152	Engineering Mathematics II	4	
	http://catalog.tamu.edu/undergraduate/	3	
	on/university-core-curriculum/	3	
#communication			
	Semester Credit Hours	15	
Second Year			
Fall			
GEOL 203	Mineralogy	4	
GEOL 210	Geological Communication	3	
MATH 251	Engineering Mathematics III	3	
PHYS 206	Newtonian Mechanics for Engineering and Science	3	
PHYS 226	Physics of Motion Laboratory for the Sciences	1	
Government/Poli	tical science (http://catalog.tamu.edu/	3	
	eneral-information/university-core-		
curriculum/#gove	ernment-political-science)		
	Semester Credit Hours	17	
Spring			
GEOL 250	Geological Field Methods	4	
GEOL 304	Igneous and Metamorphic Petrology	4	
MATH 308	Differential Equations	3	
PHYS 207	Electricity and Magnetism for Engineering and Science	3	
PHYS 227	Electricity and Magnetism Laboratory for the Sciences (Technical Electives) ²	1	
Technical electives ²			
	Semester Credit Hours	16	
Summer			
Technical electives ²			

Semester Credit Hours

Third Vacu

Third Year		
Fall		
GEOL 306	Sedimentology and Stratigraphy	4
GEOP 341	Fundamentals of Geophysics	3
-	(http://catalog.tamu.edu/undergraduate/ on/university-core-curriculum/#american-	3
undergraduate/g	tical science (http://catalog.tamu.edu/ eneral-information/university-core- ernment-political-science)	3
undergraduate/g	ophy and culture (http://catalog.tamu.edu/ eneral-information/university-core- juage-philosophy-culture) ¹	3
	Semester Credit Hours	16
Spring		
GEOL 312	Structural Geology and Tectonics	4
GEOL 314	Paleontology and Geobiology	4
GEOL 350	Summer Field Geology	3
Technical elective	es ²	8
	Semester Credit Hours	19
Summer		
-	(http://catalog.tamu.edu/undergraduate/ on/university-core-curriculum/#american-	3
	Semester Credit Hours	3
Fourth Year		
Fall		
GEOL 450	Geology Senior Project	3
Creative arts (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/#creative- arts) ¹		
undergraduate/g	ioral sciences (http://catalog.tamu.edu/ eneral-information/university-core- ial-behavioral-sciences) ¹	3
Technical elective	es ²	6
Technical elective	es ² Semester Credit Hours	6 15
Technical elective Spring		
	Semester Credit Hours	
Spring	Semester Credit Hours	15
Spring	Semester Credit Hours	15
Spring Graduate elective Fifth Year Fall	Semester Credit Hours es ³ Semester Credit Hours	15
Spring Graduate elective Fifth Year	Semester Credit Hours es ³ Semester Credit Hours	15
Spring Graduate elective Fifth Year Fall	Semester Credit Hours es ³ Semester Credit Hours	15 12 12
Spring Graduate elective Fifth Year Fall Graduate elective Spring	Semester Credit Hours Semester Credit Hours Semester Credit Hours Semester Credit Hours	15 12 12
Spring Graduate elective Fifth Year Fall Graduate elective	Semester Credit Hours Semester Credit Hours Semester Credit Hours Semester Credit Hours	15 12 12

The Graduation requirements include a requirement for three hours of International and Cultural Diversity courses and three hours of Cultural Discourse courses. A course satisfying a Core category, a college/ department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

Total Semester Credit Hours

- 2
- Any science, math or engineering course that augments the degree with the approval of the advisor. At least four credits should be GEOL 491 Research.
- The MS degree Non-Thesis Option is 36 total hours, with 6 hours double-counting with the undergraduate Technical Electives. The MS with Thesis Option is 32 hours, with 2 hours double-counting with Technical Electives. Graduate courses may be in Geology, Geophysics or a supporting math or science area, chosen with approval of the student's advisory committee. Students in the Thesis Option may include up to 8 hours of Research courses.

The program includes a total of 152 or 156 hours which up to 2 or 6 hours may be applied toward both the Bachelor of Science in Geology and the Master of Science in Geology.