GEOPHYSICS - BS

Program Requirements

Program	Requirements	
First Year		
Fall		Semester Credit
		Hours
GEOL 150	Introduction to the Solid Earth	4
GEOL 180	Introduction to Geology and Geophysics	1
CHEM 107	General Chemistry for Engineering	4
& CHEM 117	Students	
	and General Chemistry for Engineering	
ENGL 104	Students Laboratory	2
MATH 151	Composition and Rhetoric Engineering Mathematics I	3
WATH 131	Semester Credit Hours	16
Spring	Semester Great Hours	10
GEOL 152	History of the Earth	4
MATH 152	Engineering Mathematics II	4
Select one of th	-	3
	story (http://catalog.tamu.edu/undergraduate/	
	rmation/university-core-curriculum/#american-	
undergradua	/Political science (http://catalog.tamu.edu/ ate/general-information/university-core-	
	#government-political-science)	
	n elective (http://catalog.tamu.edu/	3
curriculum/#co	/general-information/university-core-	
curricularii, #cc	Semester Credit Hours	14
Second Year	Semester oreal ribars	
Fall		
GEOL 203	Mineralogy	4
GEOL 210	Geological Communication	3
MATH 251	Engineering Mathematics III	3
PHYS 206	Newtonian Mechanics for Engineering and	3
	Science	
PHYS 226	Physics of Motion Laboratory for the	1
	Sciences	
	Semester Credit Hours	14
Spring		
GEOL 304	Igneous and Metamorphic Petrology	4
GEOL 250	Geological Field Methods	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	1
	Semester Credit Hours	15
Third Year		
Fall		
GEOP 341	Fundamentals of Geophysics	3
CEOL 206	Codimentalens and Ctratiquents:	4

Sedimentology and Stratigraphy

4

GEOL 306

MATH 311	Topics in Applied Mathematics I	3
PHYS 221	Optics and Thermal Physics	3
Select one of the	e following:	3
	tory (http://catalog.tamu.edu/undergraduate/ mation/university-core-curriculum/#american-	
undergraduat	Political science (http://catalog.tamu.edu/ te/general-information/university-core- government-political-science)	
	Semester Credit Hours	16
Spring		
GEOL 312	Structural Geology and Tectonics	4
GEOP 313	Geophysical Field Methods	4
GEOP 361	Geophysical Signal Processing	3
Select one of the	e following:	3
	tory (http://catalog.tamu.edu/undergraduate/ mation/university-core-curriculum/#american-	
undergraduat	Political science (http://catalog.tamu.edu/ te/general-information/university-core- government-political-science)	
Technical elective	ve ¹	3
	Semester Credit Hours	17
Fourth Year Fall		
GEOP 421	Seismology	4
GEOP 413	Near-surface Geophysics	3
GEOL 450	Geology Senior Project	3
catalog.tamu.ed	sophy and culture elective (http:// lu/undergraduate/general-information/ curriculum/#language-philosophy-culture) ²	3
	Semester Credit Hours	13
Spring		
Select one of the	e following:	3
	tory (http://catalog.tamu.edu/undergraduate/ mation/university-core-curriculum/#american-	
undergraduat	Political science (http://catalog.tamu.edu/ te/general-information/university-core- government-political-science)	
	ctive (http://catalog.tamu.edu/ general-information/university-core- ative-arts) ²	3
catalog.tamu.ed university-core-c	vioral science elective (http:// lu/undergraduate/general-information/ curriculum/#social-behavioral-sciences) ²	3
Geophysics elec	_	3
Technical elective		3
	Semester Credit Hours	15
	Total Semester Credit Hours	120

- ¹ Any science, math or engineering course that augments the degree
- with the approval of the advisor.

 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/

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department requirement, or a free elective can be used to satisfy this requirement. See academic advisor.

3 Any approved 400-level geophysics course not already required.