

GEOLOGY - BS

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
Semester Credit Hours		16

Spring

CHEM 120	Fundamentals of Chemistry II	4
GEOL 152	History of the Earth	4
MATH 152	Engineering Mathematics II	4
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Semester Credit Hours		15

Second Year

Fall		Semester Credit Hours
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
Semester Credit Hours		14

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	1
Semester Credit Hours		15

Third Year

Fall		Semester Credit Hours
GEOL 306	Sedimentology and Stratigraphy	4
GEOP 341	Fundamentals of Geophysics	3
Select one of the following:		3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		

Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ¹	3
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Semester Credit Hours 13

Spring

GEOL 312	Structural Geology and Tectonics	4
GEOL 314	Paleontology and Geobiology	4
Select one of the following:		3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		
Technical elective ²		3

Semester Credit Hours 14

Summer

GEOL 350	Summer Field Geology	3
Semester Credit Hours		3

Fourth Year

Fall		Semester Credit Hours
GEOL 450	Geology Senior Project	3
Select one of the following:		3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		
Technical elective ²		9
Semester Credit Hours		15

Spring

Select one of the following:		3
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		
Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science)		
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ¹		3
Social and behavioral science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) ¹		3
Technical elective ²		6

Semester Credit Hours 15

Total Semester Credit Hours 120

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- ¹ The Graduation requirements include a requirement for three hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and three hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) 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.
- ² Any science, math or engineering course that augments the degree with the approval of the advisor.