

EARTH AND SPACE SCIENCE (BS) - GEOLOGY TRACK

Program Map

Course	Title	Credit Hours
First Year		
Fall		
MATH 1113	Pre-Calculus (minimum grade of C)	4
ENGL 1101	English Composition I (minimum grade of C)	3
GEOL 1121	Introductory Geoscience I: Physical Geology (minimum grade of C) ¹	3
GEOL 1121L	Introductory Geoscience I: Physical Geology Lab (minimum grade of C) ¹	1
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3
Credit Hours		14
Spring		
MATH 1131	Calculus with Analytic Geometry I	4
GEOL 1122	Introductory Geo-sciences II: Historical Geology (minimum grade of C) ¹	3
GEOL 1322	Introductory Geo-sciences II: Historical Geology Lab (minimum grade of C) ¹	1
ENGL 1102	English Composition II (minimum grade of C)	3
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1-2
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
Credit Hours		15-16
Second Year		
Fall		
CHEM 1211	Principles of Chemistry I (minimum grade of C)	3
CHEM 1211L	Principles of Chemistry I Lab (minimum grade of C)	1
ATSC 1112	Understanding the Weather (minimum grade of C)	3
ASTR 1105	Descriptive Astronomy: The Solar System (minimum grade of C)	3
GEOL 2225	The Fossil Record (minimum grade of C)	4
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
Credit Hours		16
Spring		
CHEM 1212	Principles of Chemistry II	3
CHEM 1212L	Principles of Chemistry II Lab	1
Area H	Elective ⁵	4
AREA C	Fine Arts	3

GEOL 3201	Mineralogy and Petrology I (minimum grade of C) ²	4
Credit Hours		15
Third Year		
Fall		
PHYS 1111 or PHYS 2211	Introductory Physics I (minimum grade of C) or Principles of Physics I	3
PHYS 1311 or PHYS 2311	Introductory Physics I Lab (minimum grade of C) or Principles of Physics I Lab	1
Area H	Elective ⁵	4
GEOL 4201	Mineralogy and Petrology II (minimum grade of C) ³	4
ENVS 1205K	Sustainability and the Environment (minimum grade of C)	4
Credit Hours		16
Spring		
PHYS 1112 or PHYS 2212	Introductory Physics II (minimum grade of C) or Principles of Physics II	3
PHYS 1312 or PHYS 2312	Introductory Physics II Lab (minimum grade of C) or Principles of Physics II Lab	1
GEOL 4235	Geographic Information and Global Positioning Systems (minimum grade of C)	4
AREA C	Humanities	
GEOL 4275	Structural Geology (minimum grade of C) ⁴	4
AREA W	PEDS Elective	4
Credit Hours		16
Fourth Year		
Fall		
GEOL 5255U	Environmental Geology (minimum grade of C)	4
AREA H	Elective ⁵	4
AREA H	Elective ⁵	4
POLS 1101	American Government	3
Credit Hours		15
Spring		
GEOL 5165U	Hydrology (minimum grade of C)	3
AREA E	World Culture	3
Area H	Elective ⁵	4
AREA E	Behavioral Science Option	3
ATSC 5117U	Global and Climate Change (minimum grade of C)	3
Credit Hours		16
Total Credit Hours		123

¹ GEOL 1122 Introductory Geo-sciences II: Historical Geology/GEOL 1322 Introductory Geo-sciences II: Historical Geology Lab is a prerequisite for GEOL 4275 Structural Geology and some Area H electives for students in the Geology track.

² GEOL 3201 Mineralogy and Petrology I is offered once every 3 semesters and is a prerequisite for GEOL 4201 Mineralogy and Petrology II.

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³ GEOL 4201 Mineralogy and Petrology II is only offered once every 3 semesters.

⁴ GEOL 4275 Structural Geology is offered every 3 semesters.

⁵ 1-4 hours from Area B may be used in Area H.

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