# EARTH AND SPACE SCIENCE (BS) - GEOLOGY TRACK

#### **Program Overview**

Core Curriculum (General)

## **Career Opportunities**

From mineral and energy exploration, to monitoring of volcanoes and landslides, to environmental protection and regulation; geologists are employed in a wide variety of fields across the globe. Many geologists work in the fields of energy and mineral exploration, where salaries are the most lucrative. Other geologists work to protect society from volcanoes, earthquakes, landslides, and floods. Some geologists study Earth history in order to understand changes in life, climate and other Earth systems through time. A significant number of geologists work to protect society from environmental degradation, including soil and water pollution, and are employed in both the private and public sector. Many of these geologists are employed as environmental scientists, which along with geoscientists are consistently ranked among the fastest growing occupations in the U.S. economy by the Bureau of Labor Statistics.

### **Program of Study**

Code	Title	Credit Hours
Core IMPACTS A	rea : Institutional Priorities <sup>1</sup>	4-5
Choose one of th	e following communication options	3
COMM 1110	Public Speaking	
Foreign Langu	age Course Options	
	CHIN, FREN, GERM, GREK, ITAL, JAPN, KREN, LAT 1001, 1002, 2001, 2002; SWAH - 1001, 1002.	IN,
Take one of the f	ollowing courses	1-2
ITDS 1779	Scholarship Across the Disciplines	
LEAD 1705	Introduction to Servant Leadership	
PERS 1506	Perspectives 1-hour	
PERS 1507	Perspectives 2-hour	
Core IMPACTS A	rea : Mathematics & Quantitative Skills <sup>1</sup>	3-7
DATA 1501	Introduction to Data Science	3
MATH 1001	Quantitative Skills and Reasoning	3
MATH 1101	Introduction to Mathematical Modeling	3
MATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	4
MATH 1125	Applied Calculus	3
MATH 1131	Calculus with Analytic Geometry I	4
MATH 1132	Calculus with Analytic Geometry II	4
MATH 1165	Computer-Assisted Problem Solving	3
MATH 1401	Introduction to Statistics	3
MATH 1501	Calculus I	4
MATH 2125	Introduction to Discrete Mathematics	3
STAT 1401	Elementary Statistics	3
Core IMPACTS A	rea : Political Science and U.S. History	6
HIST 2111	U. S. History to 1865	3
or HIST 2112	U. S. History since 1865	
POLS 1101	American Government	3

Select one Fine Arts course 3 ARTH 1100 Art Appreciation ARTH 2125 Introduction to the History of Art II—Prehistoric through Gothic ARTH 2126 Introduction to the History of Art II—Renaissance through Modern MUSC 1100 Music Appreciation THEA 1100 Theatre Appreciation ITDS 1145 Comparative Arts 2 Select one Humanities course 3 ENGL 2111 World Literature I ENGL 2112 World Literature II ITDS 1155 The Western Intellectual Tradition ITDS 1145 Comparative Arts 2 Fine Martin 1102 English Composition II 3 ENGL 2110 Introduction to Digital Humanities PHIL 2010 Introduction to Digital Humanities PHIL 2010 Introduction to Philosophy ITDS 1145 Comparative Arts 2  Core IMPACTS Area : Communicating in Writing 6 ENGL 1101 English Composition II 3 SCORE IMPACTS Area : Technology, Mathematics, and Sciences 1.3 7-11 ANTH 1145 Human Origins 3 ASTR 1105 Descriptive Astronomy. The Solar System 3 ASTR 1105 Descriptive Astronomy. Stars and Galaxies 3 ASTR 1305 Descriptive Astronomy Lab 1 ATSC 1112 Understanding the Weather 3 ATSC 1112 Understanding the Weather 13 BIOL 1215K Introductory Biology 4 BIOL 1225K Contemporary Issues in Biology Non-Lab 3 BIOL 1215K Introductory Biology 4 BIOL 1225K Contemporary Issues in Biology with Lab 4 CHEM 1151 Survey of Chemistry I and Survey of Chemistry I Lab 4 CHEM 1211 Principles of Chemistry II ab 4 ENVS 1105 Environmental Studies Laboratory 1 ENVS 1105 Environmental Studies Laboratory 3 GEOL 1121 Introductory Geoscience I: Physical Geology Lab 1 Introductory Geoscience I: Physical Geology Lab 1 Introductory Geoscience I: Physical Geology 1 GEOL 1121 Introductory Geoscience I: Physical Geology 1 Introductory	Core IMPACTS Are	ea : Arts, Humanities, and Ethics	6
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ENVS 1205K Sustainability and the Environment 4 GEOG 2215 Introduction to the Geographic Information Systems GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	ENVS 1105	Environmental Studies	3
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Systems  GEOL 1110 Natural Disasters: Our Hazardous Environment 3  GEOL 1121 Introductory Geoscience I: Physical Geology 3  GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1  GEOL 1122 Introductory Geo-sciences II: Historical Geology 3  GEOL 1322 Introductory Geo-sciences II: Historical Geology 1  Lab	ENVS 1205K	Sustainability and the Environment	4
GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOG 2215		3
GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOL 1110	Natural Disasters: Our Hazardous Environment	3
GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOL 1121	Introductory Geoscience I: Physical Geology	3
GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOL 1121L		1
GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOL 1122		3
GEOL 2225 The Fossil Record 4	GEOL 1322	Introductory Geo-sciences II: Historical Geology	1
	GEOL 2225	The Fossil Record	4

PHYS 1111	Introductory Physics I	4
& PHYS 1311	and Introductory Physics I Lab	
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab	4
PHYS 1125	Physics of Color and Sound	3
PHYS 1325	Physics of Color and Sound Lab	1
PHYS 2211	Principles of Physics I	4
& PHYS 2311	and Principles of Physics I Lab	4
PHYS 2212	Principles of Physics II	4
& PHYS 2312	and Principles of Physics II Lab	
	ea : Social Sciences	6
Select one Behav	ioral Science course	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
PHIL 2030	Moral Philosophy	
PSYC 1101	Introduction to General Psychology	
SOCI 1101	Introduction to Sociology	
Select one World	Cultures course	3
ANTH 1107	Discovering Archaeology	
ANTH 1105	Cultural Anthropology	
ANTH 2105	Ancient World Civilizations	
ANTH 2136	Language and Culture	
ENGL 2136	Language and Culture	
GEOG 1101	World Regional Geography	
HIST 1111	World History to 1500	
HIST 1112	World History since 1500	
ITDS 1156	Understanding Non-Western Cultures	
Core IMPACTS To	tal Hours	42
Health and Wellne	ess	3
KINS 1106	Lifetime Wellness	2
or PHED 1205	Concepts of Fitness	
Select one of the	following	1
Any PEDS coul	rse	
MUSC 1206	Body Mapping (Music Majors Only)	

The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

2 ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

3 At least 4 of the credit hours in this area must be in a lab science course.

# **Major Requirements**

Code	Title	Credit Hours	
Core Requireme	nts		
Complete the co	re requirements for this program	45	
Core Total		45	
Field of Study Requirements			
Minimum grade of C is required			
ATSC 1112	Understanding the Weather	3	
ASTR 1105	Descriptive Astronomy: The Solar System	3	
ENVS 1205K	Sustainability and the Environment	4	

Total (	Credit Hour	'S	123
	Electives T		22
		9 hour upper-level course requirement is met	
		counted towards Major Electives with advisor	
		flower level (1000-2000) courses relevant to the	
		TH, or UTCH	12
		wing*: any 3000+ level ANTH, ASTR, ATSC, ENGR,	12
_		+ level GEOL course	10
	Electives	iviajoi Totai	30
		Major Total	38
	YS 2312	Principles of Physics II Lab	
	nce 2: YS 2212	Principles of Physics II	
		Introductory Physics II Lab	
	YS 1112 YS 1312	Introductory Physics II I ab	
•	YS 1112	Introductory Physics II	
	nce 1:	following PHYS sequences (4 cr)	4
	5117U	Global and Climate Change	3
ATCC	5117U	Systems Clobal and Climata Change	0
GEOL	4235	Geographic Information and Global Positioning	4
or (	GEOL 5215	U Geomorphology	
	5165U	Hydrology	3
	5255U	Environmental Geology	4
GEOL		Structural Geology	4
GEOL	4201	Mineralogy and Petrology II	4
GEOL	3201	Mineralogy and Petrology I	4
GEOL	2225	The Fossil Record	4
OLOL	.022	Lab	
GEOL		Introductory Geo-sciences II: Historical Geology	1
GEOL		Introductory Geo-sciences II: Historical Geology	3
		of C is required	
	red for the		.0
		equirements Total	18
	YS 2211 YS 2311	Principles of Physics I Lab	
	quence 2:	Dringinles of Dhysica I	
	YS 1311	Introductory Physics I Lab	
	YS 1111	Introductory Physics I	
	quence 1:		
		following PHYS sequences:	4
	1121L	Introductory Geoscience I: Physical Geology Lab	1

# **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) <sup>1</sup>	3

GEOL 1121L	Introductory Geoscience I: Physical Geology Lab (minimum grade of C) <sup>1</sup>	1
Institutional Priorities	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) <sup>1</sup>	3
GEOL 1322	Introductory Geo-sciences II: Historical Geology Lab (minimum grade of C) <sup>1</sup>	1
ENGL 1102	English Composition II (minimum grade of C)	3
Institutional Priorities	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
Program Electives	Elective <sup>5</sup>	4
Arts, Humanities, and Ethics	Fine Arts	3
GEOL 3201	Mineralogy and Petrology I (minimum grade of C) <sup>2</sup>	4
	Credit Hours	15
Third Year Fall		
PHYS 1111	Introductory Physics I (minimum grade of	3
or PHYS 2211	C) or Principles of Physics I	3
PHYS 1311	Introductory Physics I Lab (minimum grade	1
or PHYS 2311	of C) or Principles of Physics I Lab	
Program Electives	Elective <sup>5</sup>	4
GEOL 4201	Mineralogy and Petrology II (minimum grade of C) <sup>3</sup>	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
Arts, Humanities, and Ethics	Humanities	
GEOL 4275	Structural Geology (minimum grade of C) 4	4
Health and Wellness	PEDS Elective	4
	Credit Hours	16
Fourth Year Fall		
GEOL 5255U	Environmental Geology (minimum grade of C)	4
Program Electives	Elective <sup>5</sup>	4
Program Electives	Elective <sup>5</sup>	4
POLS 1101	American Government	3
Spring	Credit Hours	15
GEOL 5165U	Hydrology (minimum grade of C)	3
Social Sciences	World Culture	3
Program Electives	Elective <sup>5</sup>	4
Social Sciences	Behavioral Science Option	3
ATSC 5117U	Global and Climate Change (minimum grade of C)	3
	Credit Hours	16
	Total Credit Hours	123

 $^{\rm 1}\,$  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 Program Electives for students in the Geology track.

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

<sup>3</sup> GEOL 4201 Mineralogy and Petrology II is only offered once every 3 semesters.

 GEOL 4275 Structural Geology is offered every 3 semesters.
 1-4 hours from Institutional Priorities may be used in Program Electives.

Earth and Space Science (BS) - Geology Track

# **Admission Requirements**

There are no program specific admission requirements.

# **Additional Program Requirements**

There are no program specific academic regulations.