EARTH AND SPACE SCIENCE (BS) - GEOLOGY TRACK

Program of Study

Code	Title	Credit Hours
Core IMPACTS A	rea : Institutional Priorities ¹	7
Take the followin		,
PERS 1506	Perspectives 1-hour	
RIVR 1101	Taking the Plunge	
RIVR 2101	Navigating Deeper Waters	
	rea : Mathematics & Quantitative Skills ¹	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
Core IMPACTS A	rea : Arts, Humanities, and Ethics	6
Select one Fine A	arts course	3
ARTH 1100	Art Appreciation	
ARTH 2125	Introduction to the History of Art I– Prehistoric through Gothic	
ARTH 2126	Introduction to the History of Art II— Renaissanc through Modern	е
MUSC 1100	Music Appreciation	
THEA 1100	Theatre Appreciation	
ITDS 1145	Comparative Arts ²	
Select one Huma	nities course	3
ENGL 2111	World Literature I	
ENGL 2112	World Literature II	
ITDS 1155	The Western Intellectual Tradition	
ITDS 1774	Introduction to Digital Humanities	
PHIL 2010	Introduction to Philosophy	
ITDS 1145	Comparative Arts ²	
Core IMPACTS A	rea : Communicating in Writing	6
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
	rea : Technology, Mathematics, and Sciences 1,3	7-11
ANTH 1145	Human Origins	3

ASTR 1105	Descriptive Astronomy: The Solar System	3
ASTR 1106	Descriptive Astronomy: Stars and Galaxies	3
ASTR 1305	Descriptive Astronomy Lab	1
ATSC 1112	Understanding the Weather	3
ATSC 1112L	Understanding the Weather Lab	1
BIOL 1125	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	4
& 1151L	and Survey of Chemistry I Lab	
CHEM 1152 & 1152L	Survey of Chemistry II and Survey of Chemistry II Lab	4
CHEM 1211	Principles of Chemistry I	4
& 1211L	and Principles of Chemistry I Lab	
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab	4
CPSC 1105	Introduction to Computing Principles and Technology	3
CPSC 1301K	Computer Science I	4
ENVS 1105	Environmental Studies	3
ENVS 1105L	Environmental Studies Laboratory	1
ENVS 1205K	Sustainability and the Environment	4
GEOG 2215	Introduction to the Geographic Information Systems	3
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 Lab	1
GEOL 2225	The Fossil Record	4
PHYS 1111	Introductory Physics I	4
& PHYS 1311	and Introductory Physics I Lab	
PHYS 1112	Introductory Physics II	4
& PHYS 1312	and Introductory Physics II Lab	
PHYS 1125	Physics of Color and Sound	3
PHYS 1325	Physics of Color and Sound Lab	1
PHYS 2211	Principles of Physics I and Principles of Physics I and	4
& PHYS 2311	and Principles of Physics I Lab Principles of Physics II	4
PHYS 2212 & PHYS 2312	and Principles of Physics II Lab	4
	ea : Social Sciences	3
Select one 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	
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

 $^{1}\,$ The hours applied in the Institutional Priorities; Mathematics &

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

Major Requirements

Core IMPACTS Total Hours

Code	Title	Credit Hours
Core Requirement	nts	
Complete the co	re requirements for this program	42
Core Total		42
Field of Study Ro	equirements	
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
GEOL 1121	Introductory Geoscience I: Physical Geology	3
GEOL 1121L	Introductory Geoscience I: Physical Geology Lab	1
Select one of the	e following PHYS sequences:	4
Sequence 1:		
PHYS 1111	Introductory Physics I	
PHYS 1311	Introductory Physics I Lab	
Sequence 2:		
PHYS 2211	Principles of Physics I	
PHYS 2311	Principles of Physics I Lab	
Field of Study Re	equirements Total	18
Required for the	Major	
Minimum grade	of C is required	
GEOL 1122	Introductory Geo-sciences II: Historical Geology	3
GEOL 1322	Introductory Geo-sciences II: Historical Geology Lab	1
GEOL 2225	The Fossil Record	4
GEOL 3201	Mineralogy and Petrology I	4
GEOL 4201	Mineralogy and Petrology II	4
GEOL 4275	Structural Geology	4
GEOL 5255U	Environmental Geology	4
GEOL 5165U	Hydrology	3
or GEOL 5215	U Geomorphology	
GEOL 4235	Geographic Information and Global Positioning Systems	2
ATSC 5117U	Global and Climate Change	3
Select one of the	e following PHYS sequences (4 cr)	4
Sequence 1:	<u> </u>	
PHYS 1112	Introductory Physics II	
PHYS 1312	Introductory Physics II Lab	

Sequence 2:

42

Total Credit Hours	•	120
Major Electives To	otal	22
program may be c	lower level (1000-2000) courses relevant to the counted towards Major Electives with advisor hour upper-level course requirement is met	
12 hours of following*: any 3000+ level ANTH, ASTR, ATSC, ENGR, ENVS, GEOL, MATH, or UTCH		12
10 hours of 3000+ level GEOL course		10
Major Electives		
Required for the Major Total		
PHYS 2312	Principles of Physics II Lab	
PHYS 2212	Principles of Physics II	

Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

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