

# GEOSCIENCES - EMERGING RESOURCES OPTION, BACHELOR OF SCIENCE

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## Curriculum

Course	Title	Hours	Completed
<b>Freshman</b>			
<b>Fall</b>			
BIOL 1014	Introduction to Biological Science	4	_____
ENGL 1013	Composition I <sup>1</sup>	3	_____
GEOL 1014	Physical Geology	4	_____
MATH 1113	College Algebra	3	_____
PHSC 1001	Orientation to Physical Science	1	_____
	<b>Hours</b>	<b>15</b>	
<b>Spring</b>			
CHEM 2124 & CHEM 2120	General Chemistry I and General Chemistry I Lab	4	_____
ENGL 1023	Composition II <sup>1</sup>	3	_____
GEOL 2024	Historical Geology	4	_____
MATH 1203	Plane Trigonometry	3	_____
PHSC 1011	Orientation to Physical Science II	1	_____
	<b>Hours</b>	<b>15</b>	
<b>Sophomore</b>			
<b>Fall</b>			
CHEM 2134 & CHEM 2130	General Chemistry II and General Chemistry II Lab	4	_____
GEOL 2001	Seminar	1	_____
GEOL 3014	Mineralogy	4	_____
GEOL 3044	Geomorphology	4	_____
USHG 1XXX	U.S. History and Government <sup>1</sup>	3	_____
	<b>Hours</b>	<b>16</b>	
<b>Spring</b>			
FW/GEOG 2833	Introduction to Geographic Information Systems	3	_____
GEOL 3164	Petrology	4	_____
MATH 2914	Calculus I	4	_____
SFHS 1XXX	Social Sciences/Fine Arts/ Humanities/Communication Courses <sup>1</sup>	3	_____
	<b>Hours</b>	<b>14</b>	
<b>Junior</b>			
<b>Fall</b>			
GEOL 3001	Seminar	1	_____
GEOL 3023	Geologic Field Techniques	3	_____
PHYS 2014 & PHYS 2000	Algebra-Based Physics I and Physics Laboratory I	4	_____

SFAH 1XXX	Social Sciences/Fine Arts/ Humanities Courses <sup>1</sup>	6	_____
<b>Hours</b>		<b>14</b>	
<b>Spring</b>			
GEOL 3004	Structural Geology	4	_____
GEOL 3124 or GEOL 4023	Invertebrate Paleontology or Principles of Stratigraphy and Sedimentation	4	_____
GEOL 3174 or GEOL 4034	Computer Applications in Geology or Subsurface Geology	4	_____
PHYS 2024 & PHYS 2010	Algebra-Based Physics II and Physics Laboratory II	4	_____
<b>Hours</b>		<b>16</b>	
<b>Senior</b>			
<b>Fall</b>			
GEOL 3153	Environmental Geology	3	_____
GEOL 4001	Seminar	1	_____
SFAH 1XXX	Social Sciences/Fine Arts/ Humanities Courses <sup>1</sup>	6	_____
General Elective		4	_____
<b>Hours</b>		<b>14</b>	
<b>Spring</b>			
GEOL 4023 or GEOL 3124	Principles of Stratigraphy and Sedimentation or Invertebrate Paleontology	3	_____
GEOL 4034 or GEOL 3174	Subsurface Geology or Computer Applications in Geology	4	_____
GEOL 4043	Geochemistry	3	_____
<b>Hours</b>		<b>10</b>	
<b>Fifth Year</b>			
<b>Summer</b>			
GEOL 4006	Field Geology <sup>2</sup>	6	_____
<b>Hours</b>		<b>6</b>	
<b>Total Hours</b>		<b>120</b>	

<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements (<https://catalog.atu.edu/undergraduate/general-education-requirements/>)". A specific general education core course does not have to be taken in the semester listed, any other part of the general education core at any time is acceptable as well.

<sup>2</sup> GEOL 4006 Field Geology (6 credit hours of field geology) must be completed during the summer after Junior or Senior year