B.S. Geology

Program Admissions Requirements

There are no program admission requirements for the BS in Geology.

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits
Objective 1		6
Objective 2		3
Objective 3 - MATH 1170		4
Objective 4		6
Objective 5 - CHEM 1111, CI	HEM 1111L, and PHYS 1111	8
Objective 6		6
Students must fulfill Objective 7 or Objective 8		3
Objective 7 - GEOL 1107		
Objective 8		
Objective 9		3
Total Credits		39

Major Requirements

Total Credits

Required Courses: MATH 1170 Calculus I 4 MATH 1175 Calculus II 3-4 or MATH 3350 Statistical Methods CHEM 1111 General Chemistry I 5 & 1111L and General Chemistry II Lab 4 CHEM 1112 General Chemistry II Lab 4 PHYS 1111 General Physics I 3-4 or PHYS 2211 Engineering Physics I 3 GEOL 1107 Real Monsters 2 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 </th <th>Code</th> <th>Title</th> <th>Credits</th>	Code	Title	Credits
MATH 1175 Calculus II 3-4 or MATH 3350 Statistical Methods CHEM 1111 General Chemistry I 5 & 1111L and General Chemistry II Lab 4 CHEM 1112 General Chemistry II Lab 4 PHYS 1111 General Physics I I 3-4 or PHYS 2211 Engineering Physics I 3 GEOL 1107 Real Monsters 2 3 GEOL 2204 Fluid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 Sedimentation-Stratigraphy 4	Required Courses:		
or MATH 3350 Statistical Methods CHEM 1111 General Chemistry I 5 & 1111L and General Chemistry I Lab CHEM 1112 General Chemistry II 4 & 1112L and General Chemistry II Lab PHYS 1111 General Physics I 3-4 or PHYS 2211 Engineering Physics I GEOL 1107 Real Monsters 2 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 GEOL 4452 Sedimentation-Stratigraphy 4	MATH 1170	Calculus I	4
CHEM 1111 General Chemistry I 5 & 1111L and General Chemistry II Lab 4 CHEM 1112 General Chemistry II Lab 4 PHYS 1111 General Physics I I 3-4 or PHYS 2211 Engineering Physics I 3 GEOL 1107 Real Monsters 2 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 Sedimentation-Stratigraphy 4	MATH 1175	Calculus II	3-4
& 1111L and General Chemistry I Lab CHEM 1112 General Chemistry II 4 & 1112L and General Chemistry II Lab PHYS 1111 General Physics I 3-4 or PHYS 2211 Engineering Physics I 3 GEOL 1107 Real Monsters 2 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 Sedimentation-Stratigraphy 4	or MATH 3350	Statistical Methods	
CHEM 1112 General Chemistry II 4 & 1112L and General Chemistry II Lab PHYS 1111 General Physics I 3-4 or PHYS 2211 Engineering Physics I GEOL 1107 Real Monsters 2 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3311 Earth Materials I 4 GEOL 3312 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 GEOL 4452 Sedimentation-Stratigraphy 4	CHEM 1111	General Chemistry I	5
& 1112L and General Chemistry II Lab PHYS 1111 General Physics I ¹ 3-4 or PHYS 2211 Engineering Physics I 3-4 GEOL 1107 Real Monsters ² 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology ³ 6 GEOL 4452 Sedimentation-Stratigraphy 4	& 1111L	and General Chemistry I Lab	
PHYS 1111 General Physics I ¹ 3-4 or PHYS 2211 Engineering Physics I 3 GEOL 1107 Real Monsters ² 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology ³ 6 GEOL 4452 Sedimentation-Stratigraphy 4	CHEM 1112	General Chemistry II	4
or PHYS 2211 Engineering Physics I GEOL 1107 Real Monsters 2 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 Sedimentation-Stratigraphy 4	& 1112L	and General Chemistry II Lab	
GEOL 1107 Real Monsters 2 3 GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 Sedimentation-Stratigraphy 4	PHYS 1111	General Physics I ¹	3-4
GEOL 2204 Fluid Earth 4 GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 6 GEOL 4452 Sedimentation-Stratigraphy 4	or PHYS 2211	Engineering Physics I	
GEOL 2205 Solid Earth 4 GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 6 GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 1107	Real Monsters ²	3
GEOL 3310 Geologic Field Methods 3 GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 6 GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 2204	Fluid Earth	4
GEOL 3313 Earth Materials I 4 GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 6 GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 2205	Solid Earth	4
GEOL 3314 Earth Materials II 4 GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 3310	Geologic Field Methods	3
GEOL 3315 Evolution of the Earth's Surface 4 GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 3313	Earth Materials I	4
GEOL 4403 Principles of Geographic Information 3 & 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology 3 6 GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 3314	Earth Materials II	4
& 4403L Systems and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology ³ 6 GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 3315	Evolution of the Earth's Surface	4
and Principles of GIS Laboratory GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology ³ 6 GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 4403	Principles of Geographic Information	3
GEOL 4421 Structural Geology 4 GEOL 4450 Field Geology ³ 6 GEOL 4452 Sedimentation-Stratigraphy 4	& 4403L	•	
GEOL 4450 Field Geology ³ 6 GEOL 4452 Sedimentation-Stratigraphy 4		and Principles of GIS Laboratory	
GEOL 4452 Sedimentation-Stratigraphy 4	GEOL 4421	Structural Geology	4
	GEOL 4450	Field Geology ³	6
42	GEOL 4452	Sedimentation-Stratigraphy	4
43 required geoscience credits plus 9 upper division geoscience			
elective courses to equal at least 50 geoscience credits.			

- May choose the following optional courses: PHYS 1113, PHYS 1114, General Physics Laboratory, 2 cr; PHYS 2213, PHYS 2214, Engineering Physics Laboratory, 2 cr.
- Transfer students may substitute other courses for GEOL 1107 with the permission of the Geosciences Department Chair or Geosciences Undergraduate Advisor.
- ³ GEOL 4450 is a 5-week summer field course.

Degree Totals

Code Title		Credits
Program Admission Requirements		0
General Education		39
Major Requirements (Required Ger	neral Education credits removed.)	54
Upper Division Free Electives		6
Free Electives		21
Total Credits		120

ISU Degree Requirements (https://coursecat.isu.edu/undergraduate/degreerequirements/)

ISU General Education (https://coursecat.isu.edu/undergraduate/academicinformation/generaleducation/)

Major Academic Plan (MAP)

71