



College of Arts & Science
Geological Sciences

The curriculum outlined below is a semester-by-semester plan of study for the BS in Geology (BS3321), Environmental Geology (BS3323) and BA3321 in adherence to section 3333.71 of the Revised Code for the three-year baccalaureate degrees.

The estimated number of hours transferred or taken as AP is set at 15. Please note these are just examples. The actual slate of courses would be dependant upon what courses a student actually has previous credit for. Students with additional AP credits would be allowed to count them (as appropriate) to the 3-year degree pathway. Successful language placement tests and appropriate courses taken during the summer would also help reduce the number of credit hours per semester needed to graduate.

Students interested in graduate school are encouraged to take a full year of calculus.

BS3321 Geology

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade	Total Hours
Post-Secondary Coursework or Transfer/Advanced Placement Credit: 15 Credit Hours Minimum				
Tier I Freshman Composition	3			
Tier II Cross Cultural Perspectives	3			
Tier II Humanities & Literature	3			
Tier I Quantitative Skills	3			
Tier II Social Science	3			15
Semester 1		Hours Required for Graduation: 123		
GEOL 1010 Introduction to Geology	4			
CHEM 1210 or CHEM 1510 General Chemistry	4		C	
MATH 2310 Calculus	4			
Tier II Natural Sciences	3			
Foreign Language	4			19
Semester 2				
GEOL 2550 Historical Geology	3			
GEOL 3300 Geomorphology	3	X		
Foreign Language	4			
CHEM 1220 or CHEM 1520 General Chemistry II	4			
Arts & Sciences Social Science	3			17

Semester 3				
GEOL 3150 Mineralogy	4	X		
GEOL 3400 Planetology	3	X		
PHYS 2001 or 2051 or BIOS 1700	4			
Arts & Sciences Humanities	3			
Arts & Sciences Social Sciences	3			17
Semester 4				
GEOL 3201 Petrology	4	X		
GEOL 3050 Statistics	4	X		
PHYS 2002 or 2052 or BIOS 1710	4			
ENG 3090 J or other Tier I Junior Composition	3			
Arts & Sciences Humanities 2XXX	3			18
Semester 5				
GEOL 3500 Stratigraphy & Sedimentology	3	X		
GEOL 3600 Structural Geology	4	X		
GEOL 4XXX Elective	3	X		
Arts & Sciences Social Sciences 2XXX	3			
Arts & Sciences 2XXX	3			16
Semester 6: Summer				
GEOL 4910 Field Geology (Tier III Equivalent)	6	X		6

¹ Major Electives- A minimum of 2 courses from GEOL 4XXX

BS3323 Environmental Geology

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade	Total Hours
Post-Secondary Coursework or Transfer/Advanced Placement Credit: 15 Credit Hours Minimum				
Tier II Fine Arts	3			
Tier II Cross Cultural Perspectives	3			
Tier II Humanities & Literature	3			
Tier I Quantitative Skills	3			
Tier II Social Science	3			15
Semester 1		Hours Required for Graduation: 123		
GEOL 1010 Introduction to Geology	4			
CHEM 1210 or CHEM 1510 General Chemistry	4		C	

MATH 2310 Calculus	4			
Tier II Natural Sciences	3			
Foreign Language	4			19
Semester 2				
GEOL 2550 Historical Geology	3			
GEOL 3300 Geomorphology	3	X		
Foreign Language	4			
CHEM 1220 or CHEM 1520 General Chemistry II	4			
Arts & Sciences Social Science	3			17
Semester 3				
GEOL 3150 Mineralogy	4	X		
GEOL 4270 Water Geochemistry	3	X		
PHYS 2001 or 2051 or BIOS 1700	4			
Arts & Sciences Humanities	3			
Arts & Sciences Social Sciences	3			17
Semester 4				
GEOL 3201 Petrology	4	X		
GEOL 3050 Statistics	4	X		
PHYS 2002 or 2052 or BIOS 1710	4			
ENG 3090 J or other Tier I Junior Composition	3			
Arts & Sciences Humanities 2XXX	3			18
Semester 5				
GEOL 3500 Stratigraphy & Sedimentology	3	X		
GEOL 3600 Structural Geology	4	X		
GEOL 4800 Hydrogeology	3	X		
Arts & Sciences Social Sciences 2XXX	3			
Arts & Sciences 2XXX	3			16
Semester 6				
GEOL 4290 Contaminant Geochemistry	3	X		
GEO 4XXX Elective	4	X		
Arts & Sciences Social Sciences 2XXX	3			
Arts & Sciences Fine Arts 2XXX	3			
Arts & Sciences Tier II 2XXX	3			15

Semester 7: Summer				
GEOL 4910 Field Geology (Tier III Equivalent)	6	X		6

¹ Major Electives- A minimum of 2 courses from GEOL 4XXX

BA3321 Geology

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade	Total Hours
Post-Secondary Coursework or Transfer/Advanced Placement Credit: 15 Credit Hours Minimum				
Tier I Freshman Composition	3			
Tier II Cross Cultural Perspectives	3			
Tier II Humanities & Literature	3			
Tier I Quantitative Skills	3			
Tier II Social Science	3			15
Semester 1				
Hours Required for Graduation: 122				
GEOL 1010 Introduction to Geology	3			
CHEM 1210 General Chemistry	4		C	
MATH 1300	4			
Tier II Social Sciences	3			
Foreign Language	4			18
Semester 2				
GEOL 2550 Historical Geology	3			
GEOL 2110 Oceanography	3			
Foreign Language	4			
CHEM 1220 General Chemistry II	4			
Arts & Sciences Social Science	3			17
Semester 3				
GEOL 3120 Earth Materials	3	X		
GEOL 3400 Paleontology	3	X		
PHYS 2001	4			
Arts & Sciences Humanities Elective 2XXX	3			
Foreign Language	3			16
Semester 4				
GEOL 3050	4	X		
GEOL 3300 Gemorphology	3	X		

Foreign Language	3	X		
Cross Cultural Perspectives Tier II	3			
Arts & Sciences Humanities 2XXX	3			
ENG 3090 J or other Tier I Junior Composition	3			16
Semester 5				
GEOL 3500 Stratigraphy & Sedimentology	3	X		
GEOL 3600 Structural Geology	4	X		
GEOL 4460 Arts 7 Sciences Tier III	3	X		
Arts & Sciences Elective 2XXX	3			
Arts & Sciences Tier II Elective 2XXX	3			
Elective	3			19
Semester 6				
GEOL 4660 Geodynamics	3	X		
GEOL 4XXX Elective	4	X		
Arts & Sciences Tier II Elective 2XXX	3			
Arts & Sciences Humanities 2XXX	3			
Arts & Sciences Social Sciences 2XXX	3			
Elective	3			18

¹ Major Electives- A minimum of 2 courses from GEOL 4XXX