

Geology B.S. Sample Academic Plan

This is a sample study plan. The information here is provided for your convenience; classes are subject to change. See your [major advisor](#) for help creating a personalized academic plan, including any co-curricular and extra-curricular activities you'd like to plan time for (like getting involved, doing internships or undergraduate research, studying abroad, etc).

Classes in italics must stay in the quarter they're listed, although not always in the year listed.

The following classes are recommended for those who intend to pursue graduate degrees but are not required for the Bachelor of Science degree in Geology: MAT 21D, MAT 22B, PHY 9D

Check online for the full list of [electives](#) and when each major course is offered.

Option 1: Structure coursework first

Year 1											
Fall Quarter			Winter Quarter			Spring Quarter			Summer		
Entry-Level Writing (if needed)	0-6	U	MAT 16B or 17B or 21B: Calculus	3-4	MA	MAT 16C or 17C or 21C: Calculus	3-4	MA			
Preparatory math or MAT 16A or 17A or 21A: Calculus	0-4	MA	CHE 2B: Chemistry	5	MA	GEL 50: Physical Geology	3	MA			
Preparatory Chemistry or CHE 2A: Chemistry	0-5	MA	General Education	3+	GE	GEL 50L: Physical Geology Lab	2	MA			
First-Year Seminar	1-2	E				Lower Division College English	4	C			
Total units:	12-15		Total units:	12+		Total units:	12+				
Year 2											
Fall Quarter			Winter Quarter			Spring Quarter			Summer		
MAT 22A: Linear Algebra – unless doing 17 series	3	MA	PHY 7A or 9A: Physics	4-5	MA	PHY 7B or 9B: Physics	4-5	MA			
MAT 22AL – if taking 22A	1	PR	<i>GEL 53: Geobiology</i>	3	MA	STA 13 or 32 or 100: Statistics	4	MA			
<i>Geology 55: Geochemistry</i>	3	MA	General Education	3+	GE	General Education	3+	GE			
General Education	3+	GE									
Total units:	12+		Total units:	12+		Total units:	12+				
Year 3: Structure coursework											
Fall Quarter			Winter Quarter			Spring Quarter			Summer		
<i>GEL 60: Earth Materials</i>	4	MA	<i>GEL 101: Structural Geology</i>	3	MA	<i>GEL 103: Spring Field</i>	4	MA	<i>GEL 110A: Summer Field: Structure & Neotectonics</i>	4	MA
<i>GEL 56: Geophysics</i>	4	MA	<i>GEL 101L: Structural Geology Lab</i>	2	MA	Upper division Geology elective	3	MA	Units for financial aid	2+	E
<i>GEL 109: Sediments & Strata</i>	3	MA	Upper division Geology elective	3	MA	UWP 101 or 102 or 104 or UDCE	4	C			
<i>GEL 109: Sediments & Strata Lab</i>	2	MA	General Education	3+	GE	General Education	3+	GE			
Total units:	12+		Total units:	12+		Total units:	12+		Total units:	6	

Year 4: Petrology coursework											
Fall Quarter			Winter Quarter			Spring Quarter			Summer		
GEL 107: Paleobiology	3	MA	<i>GEL 105: Igneous Rocks</i>	4	MA	<i>GEL 108: Paleoclimates</i>	3	MA	<i>GEL 110B: Summer Field: Volcanology</i>	4	MA
GEL 107L: Paleobiology Lab	2	MA	Upper division Geology elective	3	MA	Upper division Geology elective	3	MA	Units for financial aid	2+	E
Upper division Geology elective	3	MA	Upper division Geology elective	3	MA	General Education	3+	GE			
General Education	3+	GE	Upper division units	4	C/E	Upper division units	0-8	C/E			
Total units:	12+		Total units:	12+		Total units:	12+		Total units:	6	
Total graduation units: 180 (64 upper division)											

U: [University Req](#) GE: [General Education](#) C: [College Requirement](#) MA: [Major](#) MI: Minor PR: Prerequisite E: Elective

Option 2: Petrology coursework first

Year 1											
Fall Quarter			Winter Quarter			Spring Quarter			Summer		
Entry-Level Writing (if needed)	0-6	U	MAT 16B or 17B or 21B: Calculus	3-4	MA	MAT 16C or 17C or 21C: Calculus	3-4	MA			
Preparatory math or MAT 16A or 17A or 21A: Calculus	0-4	MA	CHE 2B: Chemistry	5	MA	GEL 50: Physical Geology	3	MA			
Preparatory Chemistry or CHE 2A: Chemistry	0-5	MA	General Education	3+	GE	GEL 50L: Physical Geology Lab	2	MA			
First-Year Seminar	1-2	E				Lower Division College English	4	C			
Total units:	12-15		Total units:	12+		Total units:	12+				
Year 2											
Fall Quarter			Winter Quarter			Spring Quarter			Summer		
MAT 22A: Linear Algebra – unless doing 17 series	3	MA	PHY 7A or 9A: Physics	4-5	MA	PHY 7B or 9B: Physics	4-5	MA			
MAT 22AL – if taking 22A	1	PR	<i>GEL 53: Geobiology</i>	3	MA	STA 13 or 32 or 100: Statistics	4	MA			
<i>Geology 55: Geochemistry</i>	3	MA	General Education	3+	GE	General Education	3+	GE			
General Education	3+	GE									
Total units:	12+		Total units:	12+		Total units:	12+				

Year 3: Petrology coursework											
Fall Quarter			Winter Quarter			Spring Quarter			Summer		
<i>GEL 60: Earth Materials</i>	4	MA	<i>GEL 105: Igneous Rocks</i>	4	MA	<i>GEL 108: Paleoclimates</i>	3	MA	<i>GEL 110B: Summer Field: Volcanology</i>	4	MA
<i>GEL 56: Geophysics</i>	4	MA	Upper division Geology elective	3	MA	Upper division Geology elective	3	MA	Units for financial aid	2	E
<i>GEL 109: Sediments & Strata</i>	3	MA	Upper division Geology elective	3	MA	UWP 101 or 102 or 104 or UDCE	4	C			
<i>GEL 109: Sediments & Strata Lab</i>	2	MA	General Education	3+	GE	General Education	3+	GE			
Total units:	12+		Total units:	12+		Total units:	12+		Total units:	6	
Year 4: Structure coursework											
Fall Quarter			Winter Quarter			Spring Quarter			Summer		
GEL 107: Paleobiology	3	MA	<i>GEL 101: Structural Geology</i>	3	MA	<i>GEL 103: Spring Field</i>	4	MA	<i>GEL 110A: Summer Field: Structure & Neotectonics</i>	4	MA
GEL 107L: Paleobiology Lab	2	MA	<i>GEL 101L: Structural Geology Lab</i>	2	MA	Upper division Geology elective	3	MA	Units for financial aid	2	E
Upper division Geology elective	3	MA	Upper division Geology elective	3	MA	General Education	3+	GE			
General Education	3+	GE	Upper division units	4	C/E	Upper division units	0-8	C/E			
Total units:	12+		Total units:	12+		Total units:	12+		Total units:	6	

Total graduation units: 180 (64 upper division)

U: [University Req](#) GE: [General Education](#) C: [College Requirement](#) MA: [Major](#) MI: Minor PR: Prerequisite E: Elective