

## SAMPLE FOUR, FIVE AND SIX YEAR CURRICULA GEOLOGY MAJOR

Four, five and six year sample curricula are provided to assist first time freshman and transfer students in a timely and efficient progression through your selected major within the Geological Sciences Department. Because each person is unique and has a unique background, these quarterly guidelines should be regarded as suggestions. These programs of study assume entering first time freshman come math and English-ready for college-level work. These programs of study assume students can devote the majority of their time to academics. Majors may elect to take a wide variety of support and general education classes during the Cal Poly Pomona summer session. By taking summer quarter courses, an undergraduate's time to degree completion may be accelerated or the load of academic year classes can be alleviated.

First time freshman are given a quarter by quarter road map for completing their Bachelor's of Science degree. Transfer students frequently arrive with much or all of their general education and support classes completed. Transfer students may find these programs helpful for determining what courses have been completed and what courses are offered in which quarter.

Geology majors are required to complete a field camp requirement. This requirement may be completed by either taking a summer field camp (GSC 490, for example), as shown during the summer of the junior year of the four year Geology program, or by taking four field modules (not shown on the suggested curriculum sheets). For further information regarding the nature of field modules contact the Geological Sciences Department.

GEOLOGICAL SCIENCES  
B. S. GEOLOGY: 180 UNITS  
FOUR YEAR MATRICULATION PLAN

FRESHMAN YEAR

FALL QUARTER	UNITS	WINTER QUARTER	UNITS	SPRING QUARTER	UNITS
ENG 104, Freshmen English	4	GSC 112/151L, Earth, Time & Life	4	BIO 110/111L or BIO 115/115L Life Sci (5)	4
GSC 111/141L, Principles of Geol & Lab	5	Gen. Ed. Area A/2, Oral Communication	4	CHM 121/121L, General Chemistry	4
MAT 114, Calculus I	4	MAT 115, Calculus II	4	GSC 145L, Megascopic Petrography	1
				MAT 116, Calculus III	4
Total Units	13	Total Units	12	Total Units	13

SOPHOMORE YEAR

FALL QUARTER	UNITS	WINTER QUARTER	UNITS	SPRING QUARTER	UNITS
GSC 215/215L, Mineralogy	4	CHM 123/123L, General Chemistry	4	GSC 255/255L, Field Methods	4
CHM 122/122L, General Chemistry	4	GSC 300/300L, Geochemistry	4	GSC 310/310L, GIS Apps for Earth Sci	3
Gen Ed. Area A/3, Critical Thinking	4	GSC 325/325L, Optical Mineralogy	4	GSC 424, Ig. & Metamorphic Petrology	3
Gen Ed. Area C/1, Fine Arts	4	PLS 201, Intro to Amer. Gov.	4	GSC 425, Ig. & Metamorphic Petrography	2
Total Units	16	Total Units	16	Total Units	12

JUNIOR YEAR

FALL QUARTER	UNITS	WINTER QUARTER	UNITS	SPRING QUARTER	UNITS
Free elective	4	Gen Ed. Area C/2, Philosophy & Civilization	4	Gen Ed. Area D/2, Hist., Econ, P. Sci	4
GSC 323/323L, Geomorphology	4	GSC 350, Natural Disasters	4	GSC 331/331L, Invert. Paleontology	4
GSC 333/333L, Structural Geology	4	GSC 360/360L, Groundwater Geology	4	HST 202, American History	4
PHY 131/131L, College Physics	4	PHY 132/132L, College Physics	4	PHY 133/133L, College Physics	4
Total Units	16	Total Units	16	Total Units	16

SUMMER OF JUNIOR YEAR

GSC 490/490L Summer Field Geology	8
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SENIOR YEAR

FALL QUARTER	UNITS	WINTER QUARTER	UNITS	SPRING QUARTER	UNITS
Gen Ed. Area C/3, Literature & Language	4	Gen Ed. Area C/4, Humanities Synthesis	4	Free Elective	3
Gen Ed. Area D/3, Sociology, etc.	4	Gen Ed. Area D/4, Soc. Sci Synthesis	4	Gen Ed. Area E, Lifelong Understanding	4
GSC 321/321L, Eng. Geology I	4	GSC 444/444L, Geotectonics or GSC 433/433L	4	GSC 423/423L, Sedimentary Geology	5
GSC 461, Senior Thesis	2	GSC 462, Senior Thesis	2	GSC463, Senior Seminar	2
Total Units	14	Total Units	14	Total Units	14

GEOLOGICAL SCIENCES  
B. S. GEOLOGY: 180 UNITS  
FIVE YEAR MATRICULATION PLAN

FRESHMAN YEAR

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
ENG 104, Freshmen English	4		Gen. Ed. Area A/2, Oral Communication	4		GSC 145L, Megascopic Petrography	1	
GSC 111/141L, Principles of Geol & Lab	5		GSC 112/151L, Earth, Time & Life	4		BIO 110/111L or BIO 115/115L Life Sci (5)	4	
MAT 114, Calculus I	4		MAT 115, Calculus II	4		Gen Ed. Area C/1, Fine Arts	4	
						MAT 116, Calculus III	4	
Total Units		13	Total Units		12	Total Units		13

SOPHOMORE YEAR

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
GSC 215/215L, Mineralogy	4		CHM 122/122L, General Chemistry	4		CHM 123/123L, General Chemistry	4	
CHM 121/121L, General Chemistry	4		Gen Ed. Area C/2, Philosophy & Civilization	4		GSC 255/255L, Field Methods	4	
Gen Ed. Area A/3, Critical Thinking	4		GSC 325/325L, Optical Mineralogy	4		GSC 424, Ig. & Metamorphic Petrology	3	
						GSC 425, Ig. & Metamorphic Petrography	2	
Total Units		12	Total Units		12	Total Units		13

JUNIOR YEAR

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
GSC 333/333L, Structural Geology	4		GSC 300/300L, Geochemistry	4		Free Elective	3	
HST 202, American History	4		GSC 360/360L, Groundwater Geology	4		GSC 310/310L, GIS Apps for Earth Sci	3	
PHY 131/131L, College Physics	4		PHY 132/132L, College Physics	4		GSC 331/331L, Invert. Paleontology	4	
						PHY 133/133L, College Physics	4	
Total Units		12	Total Units		12	Total Units		14

SENIOR YEAR

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
PLS 201, Intro to Amer. Gov.	4		GSC 444/444L, Geotectonics or GSC 433/433L	4		Gen Ed. Area D/3, Sociology, etc.	4	
Gen Ed. Area C/3, Literature & Language	4		Gen Ed. Area C/4, Humanities Synthesis	4		GSC 423/423L, Sedimentary Geology	5	
GSC 323/323L, Geomorphology	4		Gen Ed. Area D/2, Hist., Econ, P. Sci	4		GSC 461, Senior Thesis	2	
GSC 350, Natural Disasters	4							
Total Units		16	Total Units		12	Total Units		11

SUMMER QUARTER

GSC 490/490L, Summer Field Geology	8
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YEAR FIVE

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
GSC 462, Senior Thesis	2		GSC 463, Senior Seminar	2				
Gen Ed. Area D/4, Soc. Sci Synthesis	4		Gen Ed. Area E	4				
GSC 321/321L, Engineering Geology I	4		Free Elective	4				
Total Units		10	Total Units		10	Total Units		0

GEOLOGICAL SCIENCES  
B. S. GEOLOGY: 180 UNITS  
SIX YEAR MATRICULATION PLAN

FRESHMAN YEAR

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
ENG 104, Freshmen English		4	Gen. Ed. Area A/2, Oral Communication		4	BIO 110/111L or BIO 115/115L Life Sci (5)		4
GSC 111/141L, Principles of Geol & Lab		5	MAT 114, Calculus I		4	GSC 145L, Megascopic Petrography		1
						MAT 115, Calculus II		4
Total Units		9	Total Units		8	Total Units		9

SOPHOMORE YEAR

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
GSC 215/215L, Mineralogy		4	Gen Ed. Area A/3, Critical Thinking		4	Gen Ed. Area C/1, Fine Arts		4
CHM 121/121L, General Chemistry		4	CHM 122/122L, General Chemistry		4	GSC 255/255L, Field Methods		4
MAT 116, Calculus III		4	GSC 112/151L, Earth, Time and Life		4	PHY 131/131L, College Physics		4
Total Units		12	Total Units		12	Total Units		12

JUNIOR YEAR

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
CHM 123/123L, General Chemistry		4	GSC 325/325L, Optical Mineralogy		4	GSC 310/310L, GIS Apps for Earth Sci		3
Gen Ed. Area C/2, Philosphy & Civilization		4	HST 202, American History		4	GSC 331/331L, Invert.Paleontology		4
GSC 333/333L, Structural Geology		4	PHY 132/132L, College Physics		4	GSC 424, Ig. & Metamorphic Petrology		3
						GSC 425, Ig. & Metamorphic Petrography		2
Total Units		12	Total Units		12	Total Units		12

SENIOR YEAR

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
GSC 323/323L, Geomorphology		4	PLS 201, Intro to Amer. Gov		4	GSC 423/423L, Sedimentary Geology		5
Gen Ed. Area C/3, Literature & Language		4	GSC 300/300L, Geochemistry		4	Gen Ed. Area D/2, Hist., Econ, P. Sci		4
PHY 133/133L, College Physics		4	GSC 360/360L, Groundwater Geology		4			
Total Units		12	Total Units		12	Total Units		9

YEAR FIVE

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
GSC 321/321L, Eng. Geology I		4	Gen Ed. Area D/3, Sociology, etc.		4	Free Elective		4
GSC 350, Natural Disasters		4	GSC 444/444L, Geotectonics or GSC 433/433L		4	GSC 461, Senior Thesis		2
Total Units		8	Total Units		8	Total Units		6

SUMMER QUARTER

GSC 490/490L, Summer Field Geology	8
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YEAR SIX

FALL QUARTER		UNITS	WINTER QUARTER		UNITS	SPRING QUARTER		UNITS
Gen Ed. Area C/4, Humanities Synthesis		4	Gen Ed. Area E		4			
GSC 462, Senior Thesis		2	GSC 463, Senior Seminar		2			
Free Elective		3	Gen Ed. Area D/4, Soc. Sci Synthesis		4			
Total Units		9	Total Units		10	Total Units		0