

Name:	
Plan:	Geology, B.S.
SubPlan/Option:	
Min Units Required:	120 unite

2021-2022 University Catalog Degree Curriculum Sheet

Major Required	62 units	Select 18 units from courses listed below:		General Educat	ion Requirements		48 Units
BIO1110 - Life Science (2) (B2) BIO1110L - Life Science Laboratory (1) (B3)		Any combination of courses listed below will satisfy the required 18 units. Emphases	are listed to	Students should view their Degree Progress Report (DPR) for information regarding their			
CHM1210 - General Chemistry I (3) (B1)		provide guidance for helping students to choose courses of interest that best fit your or goals, but there is no requirement for choosing a specific emphasis for fulfilling these	General Education requirements. Unless specific GE courses are required for their major, please refer to the list of approved courses in the General Education Program in the University Catalog,				
CHM1210L - General Chemistry Laboratory I (1) (B3) CHM1220 - General Chemistry II (3) (B1)		Geology Emphasis	18 units		oved courses in the General Education n viewing the catalog, students should		
ICHM1220L - General Chemistry Laboratory II (1) (B3)					ents listed in their Degree Progress Re		associated
GSC1110 - Principles of Geology (3) (B1)		Emphasis Required	10 units	Area A. English Langu	age Communication and Critical Thin	king (9 units)	
GSC1120 - Earth, Time, and Life (3) (B1) GSC14101 - Principles of Geology Laboratory (1) (B3)		GSC3310 - Paleontology (2) <i>and</i> GSC3310L - Paleontology Laboratory (1)		At least 3 units from e	ach sub-area		
GSC1410L - Principles of Geology Laboratory (1) (B3) GSC1450L - Megascopic Petrography Laboratory (1) GSC1510L - Earth, Time, and Life Laboratory (1) (B3)		OR STATE OF THE PROPERTY OF TH		Oral Communic			
GSC1510L - Earth, Time, and Life Laboratory (1) (B3) GSC2150 - Mineralogy (2)		GSC4440 - Tectonics (2) <i>and</i> GSC4440L - Tectonics Laboratory (1)		Written Commu			
GSC2150L - Mineralogy Laboratory (1) GSC2550L - Field Methods Laboratory (1)		OR The state of th		3. Critical Thinking			
GSC2550L - Field Methods Laboratory (1) GSC3000 - Geochemistry (2)		GSC4700 - Volcanology (2) and GSC4700L - Volcanology Laboratory (1)		Area B. Scientific Inquiry and Quantitative Reasoning (12 units) At least 3 units from B1, B2, B4, and B5 including 1 unit of lab from B1 or B2 to fulfill B3			
GSC3000L - Geochemistry Laboratory (1)		GSC4700L - Volcanology Laboratory (1)		1. Physical Science		au IIOIII DT OI DZ 10 IUIIII	II D3
GSC3000L - Geochemistry Laboratory (1) GSC3070 - Introduction to Global Geophysics (2)		GSC4240 - Igneous and Metamorphic Petrology (2)		2. Life Sciences	,63		
GSC3070L - Introduction to Global Geophysics Laboratory (1)		GSC4240L - Igneous and Metamorphic Petrology Laboratory (2) GSC4910L - Field Module Laboratory (1-2) (3 units required)		3. Laboratory Activ	vitv		
GSC3230 - Geomorphology (2) GSC3230L - Geomorphology Laboratory (1)		Emphasis Electives	8 units	,	uantitative Reasoning		
GSC3330 - Structural Geology (2) GSC3330L - Structural Geology Laboratory (1)		GSC4010 - GIS Applications for Earth and Environmental Scientists (1) and	- C GIIICO	5. Science and Te	chnology Synthesis		
GSC3600 - Hydrogeology (2)		GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2)		Area C. Arts and Hum	anities (12 units)		
GSC3600 - Hydrogeology (2) GSC3600L - Hydrogeology Laboratory (1) GSC4230 - Sedimentary Geology (2)		GSC4150 - Engineering Geology II (2) and		At least 3 units from e	ach sub-area and 3 additional units fr	om sub-areas 1 and/or 2	2
GSC4230 - Sedimentary Geology (2) GSC4230L - Sedimentary Geology Laboratory (1)		GSC4150L - Engineering Geology II Laboratory (1)		Visual and Perf			
GSC4910L - Field Module Laboratory (1-2) (1 unit required)		GSC4320 - Soil Physics (2) and			ern Languages, Philosophy and Civiliz	zation	
GSC3040 - Meteorology (3) (B5)		GSC4320 - Soil Physics (2) and GSC4320L - Soil Physics Laboratory (1)		3. Arts and Human	•		
GSC3200 - Studies of a Blue Planet (3) (B5)		• • • • • • • • • • • • • • • • • • • •		Area D. Social Science At least 3 units from e.			
OR		GSC4340 - Shallow Subsurface Geophysics (2) and GSC4340L - Shallow Subsurface Geophysics Laboratory (1)		1. U.S. History and			
GSC3210 - Engineering Geology I (2) (B5) and GSC3210L - Engineering Geology I Laboratory (1) (B5)		, , , , , , , , , , , , , , , , , , , ,		•	on and California Government		
OR		GSC4400 - Exploration and Mining Geology (2) and		Social Science			
GSC3350 - Exploring Earth's Oceans: Oceanography (3) (B5)		GSC4400L - Exploration and Mining Geology Laboratory (1)			ning and Self-Development (3 units)		
GSC3500 - Natural Disasters (3) (B5)		GSC4500 - Introduction to Seismology, Earthquakes and Earth Structure (2) and	(1)	Area F. Ethnic Studies			
MATA440 Colorius I (4) (D4)		GSC4500L - Introduction to Seismology, Earthquakes and Earth Structure Laboratory	′ (1)	Interdisciplinary	General Education		18 Units
MAT1140 - Calculus I (4) (B4) MAT1150 - Calculus II (4) (B4)		GSC4800 - Quantitative and Computer Skills in the Geosciences (3)		-	or partial fulfillment of GE Areas A, C,	and D available for stude	
		GSC5030L - Field Investigations Laboratory (1)			ral Education (IGE) program. Students		
PHY1210 - Physics of Motion, Fluids, and Heat (3) (B1) <i>and</i> PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)		GSC5330 - Advanced Topics in Structural Geology and Tectonics (2) and			ed by their major. Please refer to the		
OR		GSC5330L - Advanced Topics in Structural Geology and Tectonics Laboratory (1)		Program section for a	dditional information.		
PHY1510 - Introduction to Newtonian Mechanics (3) (B1) and PHY1510L - Newtonian Mechanics Laboratory (1) (B3)		GSC5340 - Quaternary Geology (2) and			How IGE fulfills General Education I	Requirements:	
FFF 1310L - Newtonian Mechanics Laboratory (1) (B3)		GSC5340L - Quaternary Geology Laboratory (1)		Year	Completion of IGE Courses	Satisfies GE Requ	irements
PHY1220 - Physics of Electromagnetism, Circuits, and Light (3) and		GSC5850 - Isotope Geochemistry (2) and		First	IGE 1100, IGE 1200	A2 and C2	
PHY1220L - Electromagnetism, Circuits, and Light Laboratory (1)		GSC5850L - Isotope Geochemistry Laboratory (1)		Second/Third	IGE 2150, IGE 2250	D1 and C2	
PHY1520 - Introduction to Electromagnetism and Circuits (3) and		CCCECEO Advanced Tenies in Codimental Con/Otratiques by (0) and			IGE 2350	C1	
PHY1520L - Introductory Laboratory on Electromagnetism and Circuits (1)		GSC5950 - Advanced Topics in Sedimentology/Stratigraphy (2) and GSC5950L - Advanced Topics in Sedimentology/Stratigraphy Laboratory (1)			IGE 3100	C3 or D4	
Major Electives	22 units	GSC XXXX - Other GSC course by petition (varies)		American Institu	utions		6 Units
Select 4 units from the list below:		Geophysics/Earth Exploration Emphasis	18 units			roa D1 and D2	
GSC4100 - Presentation, Writing and Research Skills in the Geosciences (2) GSC4610 - Senior Project and Presentation (2)		Emphasis Required 9 units		Courses that satisfy this requirement may also satisfy GE Area D1 and D2. Graduation Writing Test			
GSC4620 - Senior Thesis (2)		GSC3200 - Studies of a Blue Planet (3) (B5) or		Graduation Writing Test All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the semester following completion of			
GSC 3XXX/4XXX - Any 3000/4000-level GSC course(s) (2-4)		GSC4950 - Planetary Science (3)					
		GSC1240 - Shallow Subscritoro Goophysics (9)		60 units for undergrad		are semester following o	ompiedon of
		GSC4340 - Shallow Subsurface Geophysics (2) GSC4340L - Shallow Subsurface Geophysics Laboratory (1)					
		GSC4500 - Introduction to Seismology, Earthquakes and Earth Structure (2)	. (4)				
		GSC4500L - Introduction to Seismology, Earthquakes and Earth Structure Laboratory	(1)				



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Geology, B.S.

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Min. Units Required:

120 units

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Emphasis Electives 9 units GSC3040 - Meteorology (3) (B5) GSC3210 - Engineering Geology I (2) (B5) and GSC3210L - Engineering Geology I Laboratory (1) (B5) URP4820 - California Water (3) (D4) GSC4010 - GIS Applications for Earth and Environmental Scientists (1) and GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2) GSC4150 - Engineering Geology II (2) and GSC4150L - Engineering Geology II Laboratory (1) GSC4320 - Soil Physics (2) and GSC4320L - Soil Physics Laboratory (1) GSC4440 - Tectonics (2) and GSC4440L - Tectonics Laboratory (1) GSC4700 - Volcanology (2) and GSC4700L - Volcanology Laboratory (1) GSC4800 - Quantitative and Computer Skills in the Geosciences (3) GSC4910L - Field Module Laboratory (1-2) GSC5330 - Advanced Topics in Structural Geology and Tectonics (2) and GSC5330L - Advanced Topics in Structural Geology and Tectonics Laboratory (1) GSC5640 - Advanced Shallow Subsurface Geophysics (2) and GSC5640L - Advanced Shallow Subsurface Geophysics Laboratory (1) GSC5680 - Topics in Advanced Seismology (2) **and** GSC5680L - Topics in Advanced Seismology Laboratory (1) GSC XXXX - Other GSC course by petition (varies) Environmental Resources Emphasis 18 units **Emphasis Required** 12 units GSC3040 - Meteorology (3) (B5) or GSC3200 - Studies of a Blue Planet (3) (B5) GSC3350 - Exploring Earth's Oceans: Oceanography (3) (B5) GSC4010 - GIS Applications for Earth and Environmental Scientists (1) GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2) GSC4320 - Soil Physics (2) GSC4320L - Soil Physics Laboratory (1) Emphasis Electives 6 units BIO3040 - Environment and Society (3) (B5) GEO3030 - Climatology (3) (B5) GEO4400 - Advanced GIS (2) and GEO4400L - Advanced GIS Laboratory (1) GEO4430 - Quantitative Spatial Analysis (2) and GEO4430L - Quantitative Spatial Analysis Laboratory (1) GSC1100 - Water in a Changing World (3) (B1) GSC4340 - Shallow Subsurface Geophysics (2) and GSC4340L - Shallow Subsurface Geophysics Laboratory (1) GSC4910L - Field Module Laboratory (1-2) GSC5450 - Advanced Hydrogeology (2) **and** GSC5450L - Advanced Hydrogeology Laboratory (1) GSC5850 - Isotope Geochemistry (2) and

PLT4310L - Soil Chemistry Laboratory (1)

RS4200 - Watershed Restoration (2) and RS4200L - Watershed Restoration Laboratory (1)

Unrestricted Electives

0-3 units

Select a sufficient number of courses so that the total from "Major Required", "Major Electives", "GE", and "Unrestricted Electives" is at least 120 units.

GSC5850L - Isotope Geochemistry Laboratory (1)

PLT2310 - Basic Soil Science (2) and PLT2310L - Basic Soil Science Laboratory (1)