

Name:
Plan:
SubPlan/Option:
Min. Units Required:

120 units

## 2020-2021 University Catalog Degree Curriculum Sheet

Major Required	62 units	Geology Emphasis	18 units	General Educati	on Requirements		48 Units
BIO1110 - Life Science (2) (B2) BIO1110L - Life Science Laboratory (1) (B3)		Emphasis Required	10 units	Students should consult the Academic Programs website			
CHM1210 - General Chemistry I (3) (B1)		GSC3310 - Paleontology (2) and		https://www.cpp	o.edu/~academic-programs/general-ed	lucation-course-listir	ngs.shtml
CHM1210L - General Chemistry Laboratory L(1) (B3)		GSC3310L - Paleontology Laboratory (1)  OR		for current information	regarding this requirement. Unless spe	ecific courses are re-	quired, please
CHM1220 - General Chemistry II (3) (B1) CHM1220L - General Chemistry Laboratory II (1) (B3)		GSC4440 - Tectonics (2) and			oved courses under General Education		as A through E.
GSC1110 - Principles of Geology (3) (B1) GSC1120 - Earth, Time, and Life (3) (B1)		GSC4440L - Tectonics Laboratory (1)			age Communication and Critical Thinki	ng (9 units)	
GSC1120 - Earth, Time, and Life (3) (B1) GSC1410L - Principles of Geology Laboratory (1) (B3)		OR GSC4700 - Volcanology (2) and		At least 3 units from ea			
IGSC1410L - Principles of Geology Laboratory (1) (B3)		GSC4700L - Volcanology Laboratory (1)		Oral Communication			
GSC1450L - Megascopic Petrography Laboratory (1) GSC1510L - Earth, Time, and Life Laboratory (1) (B3)		CSC4040 Ignocus and Matemorphia Petrology (2)		2. Written Commu			
GSC2150 - Mineralogy (2)		GSC4240 - Igneous and Metamorphic Petrology (2) GSC4240L - Igneous and Metamorphic Petrology Laboratory (2)		3. Critical Thinking		in)	
GSC2150L - Mineralogy Laboratory (1) GSC2550L - Field Methods Laboratory (1)		GSC4910L - Field Module Laboratory (1-2) (3 units required)		•	ry and Quantitative Reasoning (12 unit 1, B2, B4, and B5 including 1 unit of lab	•	ılfill R3
GSC3000 - Geochemistry (2)		Emphasis Electives	8 units	1. Physical Science		ו טו שב נט ונ	טם וווווג
GSC3000L - Geochemistry Laboratory (1) GSC3070 - Introduction to Global Geophysics (2)		GSC4010 - GIS Applications for Earth and Environmental Scientists (1) and		2. Life Sciences			
GSC3070L - Introduction to Global Geophysics Laboratory (1)		GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2)		Laboratory Activ	ritv		
GSC3230 - Geomorphology (2) GSC3230L - Geomorphology Laboratory (1)		GSC4150 - Engineering Geology II (2) and		,	uantitative Reasoning		
IGSC3330 - Structural Geology (2)		GSC4150L - Engineering Geology II Laboratory (1)		5. Science and Ted	chnology Synthesis		
IGSC3330L - Structural Geology Laboratory (1)		GSC4320 - Soil Physics (2) and		Area C. Arts and Huma	anities (12 units)		
GSC3600 - Hydrogeology (2) GSC3600L - Hydrogeology Laboratory (1) GSC4230 - Sedimentary Geology (2)		GSC4320L - Soil Physics Laboratory (1)		At least 3 units from ea	ach sub-area and 3 additional units fron	n sub-areas 1 and/d	or 2
GSC4230 - Sedimentary Geology (2)		GSC4340 - Shallow Subsurface Geophysics (2) and		<ol> <li>Visual and Perfo</li> </ol>	S .		
GSC4230L - Sedimentary Geology Laboratory (1) GSC4910L - Field Module Laboratory (1-2) (1 unit required)		GSC4340L - Shallow Subsurface Geophysics Laboratory (1)		,	ern Languages, Philosophy and Civiliza	ition	
GSC4910L - Field Module Laboratory (1-2) (1 unit required)		0004400 Furlandian and Minim Onlaw (0) and		3. Arts and Human	,		
GSC3040 - Meteorology (3) (B5)		GSC4400 - Exploration and Mining Geology (2) <b>and</b> GSC4400L - Exploration and Mining Geology Laboratory (1)		Area D. Social Science At least 3 units from ea			
GSC3200 - Studies of a Blue Planet (3) (B5)		3 37 7 7 7		1. U.S. History and			
OR		GSC4500 - Introduction to Seismology, Earthquakes and Earth Structure (2) <b>and</b> GSC4500L - Introduction to Seismology, Earthquakes and Earth Structure Laboratory	(1)	•	n and California Government		
GSC3210 - Engineering Geology I (2) (B5) <b>and</b> GSC3210L - Engineering Geology I Laboratory (1) (B5)		and loose introduction to coloniology, Earthquance and Earth citation Earthquance	(')		: Principles, Methodologies, Value Syst	tems, and Ethics	
IOR		GSC4800 - Quantitative and Computer Skills in the Geosciences (3) GSC5030L - Field Investigations Laboratory (1)		4. Social Science S		, =	
GSC3350 - Exploring Earth's Oceans: Oceanography (3) (B5)		d3C3030L - Fleid IIIVestigations Laboratory (1)			ing and Self-Development (3 units)		
OR GSC3500 - Natural Disasters (3) (B5)		GSC5330 - Advanced Topics in Structural Geology and Tectonics (2) and		Interdisciplinary	General Education		21 Units
		GSC5330L - Advanced Topics in Structural Geology and Tectonics Laboratory (1)				ad D. available for at	
MAT1140 - Calculus I (4) (B4) MAT1150 - Calculus II (4) (B4)		GSC5340 - Quaternary Geology (2) and			r partial fulfillment of GE Areas A, C, ar al Education (IGE) program. Students s		
		GSC5340L - Quaternary Geology Laboratory (1)			ed by their major. Please refer to the Ur		
PHY1210 - Physics of Motion, Fluids, and Heat (3) (B1) <b>and</b> PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)		GSC5850 - Isotope Geochemistry (2) and		Program section for ad		, , , , , , , , , , , , , , , , , , , ,	
IPHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)		GSC5850L - Isotope Geochemistry Laboratory (1)			How IGE fulfills General Education Re	equirements:	
PHY1510 - Introduction to Newtonian Mechanics (3) (B1) and		GSC5950 - Advanced Topics in Sedimentology/Stratigraphy (2) and		Year	Completion of IGE Courses	Satisfies GE Re	equirements
PHY1510L - Newtonian Mechanics Laboratory (1) (B3)		GSC5950L - Advanced Topics in Sedimentology/Stratigraphy Laboratory (1)		First	IGE 1100. IGE 1200	A2 and C2	
PHY1220 - Physics of Electromagnetism, Circuits, and Light (3) and		GSC XXXX - Other GSC course by petition (varies)		Second/Third	IGE 2100, IGE 2200	C1 and C2	
PHY1220 - Physics of Electromagnetism, Circuits, and Light (3) <b>and</b> PHY1220L - Electromagnetism, Circuits, and Light Laboratory (1)		Geophysics/Earth Exploration Emphasis	18 units		IGE 2300, IGE 2400	D1 and D3	
OR PHY1520 - Introduction to Electromagnetism and Circuits (3) and		Emphasis Required	9 units	Third/Fourth	IGE 3100	C3 or D4	
PHY1520L - Introductory Laboratory on Electromagnetism and Circuits (1)		GSC3200 - Studies of a Blue Planet (3) (B5) or				30 0. 2 .	6 Units
Major Electives	22 units	GSC4950 - Planetary Science (3)		7 dilette dil illediadiette			
Select 4 units from the list below:		GSC4340 - Shallow Subsurface Geophysics (2) GSC4340L - Shallow Subsurface Geophysics Laboratory (1)		Courses that satisfy this requirement may also satisfy GE Area D1 and D2.			
GSC4100 - Presentation, Writing and Research Skills in the Geosciences (2)		GSC4500 - Introduction to Seismology, Earthquakes and Earth Structure (2)	American Cultural Perspectives Requirement		3 Units		
GSC4610 - Senior Project and Presentation (2) GSC4620 - Senior Thesis (2)		GSC4500L - Introduction to Seismology, Earthquakes and Earth Structure Laboratory	(1)		Catalog General Education Program s		
GSC 3XXX/4XXX - Any 3000/4000-level GSC course(s) (2-4)				satisfy this requirement requirements.	t. Course may also satisfy major, minor	r, GE, or unrestricte	d elective
1 0 1 4 6 7 6 7 7 1 1 1				requirements.			

## **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 60 units for undergraduates.

Any combination of courses listed below will satisfy the required 18 units. Emphases are listed to provide guidance for helping students to choose courses of interest that best fit your career goals, but there is no requirement for choosing a specific emphasis for fulfilling these units.

Select 18 units from courses listed below:



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Name:	
Plan:	Geology, B.S.
SubPlan/Option:	

Min. Units Required: 120 units

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Emphasis Electives	9 units	DO 1000 Websited Destroition (0) and
GSC3040 - Meteorology (3) (B5)		RS4200 - Watershed Restoration (2) <b>and</b> RS4200L - Watershed Restoration Laboratory (1)
GSC3210 - Engineering Geology I (2) (B5) <b>and</b> GSC3210L - Engineering Geology I Laboratory (1) (B5)		URP4820 - California Water (3) (D4)
GSC4010 - GIS Applications for Earth and Environmental Scientists (1) <b>and</b> GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2)		Unrestricted Electives Select a sufficient number of courses so that the to
GSC4150 - Engineering Geology II (2) <i>and</i> GSC4150 - Engineering Geology II Laboratory (1)		"GE", and "Unrestricted Electives" is at least 120 u
GSC4320 - Soil Physics (2) <b>and</b> GSC4320L - Soil Physics Laboratory (1)		
GSC4440 - Tectonics (2) <b>and</b> GSC4440L - Tectonics Laboratory (1)		
GSC4700 - Volcanology (2) <b>and</b> 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) <b>and</b> GSC5330L - Advanced Topics in Structural Geology and Tectonics Laboratory (1)		
GSC5640 - Advanced Shallow Subsurface Geophysics (2) <b>and</b> GSC5640L - Advanced Shallow Subsurface Geophysics Laboratory (1)		
GSC5680 - Topics in Advanced Seismology (2) <b>and</b> 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) <b>or</b> 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) <b>and</b> GEO4400L - Advanced GIS Laboratory (1)		
GEO4430 - Quantitative Spatial Analysis (2) <b>and</b> GEO4430L - Quantitative Spatial Analysis Laboratory (1)		
GSC1100 - Water in a Changing World (3) (B1)		
GSC4340 - Shallow Subsurface Geophysics (2) <b>and</b> GSC4340L - Shallow Subsurface Geophysics Laboratory (1)		
GSC4910L - Field Module Laboratory (1-2)		
GSC5450 - Advanced Hydrogeology (2) <b>and</b> GSC5450L - Advanced Hydrogeology Laboratory (1)		
GSC5850 - Isotope Geochemistry (2) <b>and</b> GSC5850L - Isotope Geochemistry Laboratory (1)		
PLT2310 - Basic Soil Science (2) <b>and</b> PLT2310L - Basic Soil Science Laboratory (1)		

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.