Cal Poly Pomona

Name:	
Plan:	Geology, B.S.
SubPlan/Option:	
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2019-2020 University Catalog Degree Curriculum Sheet

Major Required	62 units	Select 18 units from courses listed below to fulfill a chosen Emphasis:		General Education Requirements		
BIO1110 - Life Science (2) (B2)		Geology Emphasis	18 units	Students should consu	It the Academic Programs webs	
BIO1110L - Life Science Laboratory (1) (B3) CHM1210 - General Chemistry I (3) (B1)		Emphasis Required	10 units	https://www.cpr	o.edu/~academic-programs/gen	
CHM1210L - General Chemistry Laboratory I (1) (B3)		GSC3310 - Paleontology (2) and	for current information regarding this reg		, , ,	
CHM1220 - General Chemistry II (3) (B1) CHM1220L - General Chemistry Laboratory II (1) (B3)		GSC3310L - Paleontology Laboratory (1)		refer to the list of approved courses under General Edu		
CHM1220L - General Chemistry Laboratory II (1) (B3)		OR STATE OF THE OR STATE OF TH		Area A. English Language Communication and Critical		
GSC1110 - Principles of Geology (3) (B1)		GSC4440 - Tectonics (2) and		At least 3 units from each sub-area		
GSC1110 - Principles of Geology (3) (B1) GSC1120 - Earth, Time, and Life (3) (B1) GSC1410L - Principles of Geology Laboratory (1) (B3)		GSC4440L - Tectonics Laboratory (1)				
GSC1450L - Megascopic Petrography Laboratory (1)		GSC4700 - Volcanology (2) and		1. Oral Communication		
GSC1510L - Earth, Time, and Life Laboratory (1) (B3) GSC2150 - Mineralogy (2)		GSC4700L - Volcanology Laboratory (1)		2. Written Commur		
GSC2150 - Mineralogy (2)		5 , , , ,		3. Critical Thinking		
GSC2150L - Mineralogy Ľaboratory (1) GSC2550L - Field Methods Laboratory (1)		GSC4240 - Igneous and Metamorphic Petrology (2)			ry and Quantitative Reasoning (
SUZ55UL - Field Methods Laboratory (1) SC3000 - Geochemistry (2)		GSC4240L - Igneous and Metamorphic Petrology Laboratory (2)			1, B2, B4, and B5 including 1 un	
CC3000 - Geochemistry (2) CC3000L - Geochemistry Laboratory (1)		GSC4910L - Field Module Laboratory (1-2) (3 units required)		 Physical Science 	es	
GSC3070 - Introduction to Global Geophysics (2) GSC3070L - Introduction to Global Geophysics Laboratory (1)		Emphasis Electives	8 units	Life Sciences		
GSC3070L - Introduction to Global Geophysics Laboratory (1)	OL - Introduction to Global Geophysics Laboratory (1) GSC4010 - GIS Applications for Earth and Environm			Laboratory Activ	rity	
GSC3230 - Geomorphology (2)		GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2)		Mathematics/Quantitative Reasoning		
SSC3330 - Structural Geology (2)		GSC4150 - Engineering Geology II (2) and		Science and Technology Synthesis		
GSC3230 - Geomorphology (2) GSC3230L - Geomorphology Laboratory (1) GSC3330 - Structural Geology (2) GSC3330L - Structural Geology Laboratory (1)		GSC4150L - Engineering Geology II Laboratory (1)		Area C. Arts and Humanities (12 units)		
GSC3600 - Hydrogeology (2) GSC3600L - Hydrogeology Laboratory (1)				At least 3 units from each sub-area and 3 additional un		
GSC3600L - Hydrogeology Laboratory (1)		GSC4320 - Soil Physics (2) and GSC4320L - Soil Physics Laboratory (1)		Visual and Performing Arts		
GSC4230 - Sedimentary Geology (2)		GSC4320L - SOII PHYSICS LADORATORY (1)		Nisual and Ferloming Arts Literature, Modern Languages, Philosophy and		
GSC4230L - Sedimentary Geology Laboratory (1) GSC4910L - Field Module Laboratory (1-2) (1 unit required)		GSC4340 - Shallow Subsurface Geophysics (2) and		Literature, Modern Languages, Philosophy and Arts and Humanities Synthesis		
		GSC4340L - Shallow Subsurface Geophysics Laboratory (1)		Area D. Social Science	•	
GSC3040 - Meteorology (3) (B5)		0004400 F. de all'access Mistra Ocales (0) and				
OR GSC3200 - Studies of a Blue Planet (3) (B5)		GSC4400 - Exploration and Mining Geology (2) and GSC4400L - Exploration and Mining Geology Laboratory (1)		At least 3 units from each sub-area		
DR		d304400L - Exploration and Mining deology Laboratory (1)		1. U.S. History and		
GSC3210 - Engineering Geology I (2) (B5) and		GSC4500 - Introduction to Seismology, Earthquakes and Earth Structure (2) and			n and California Government	
GSC3210L - Engineering Geology I Laboratory (1) (B5)		GSC4500L - Introduction to Seismology, Earthquakes and Earth Structure Laboratory	(1)		: Principles, Methodologies, Val	
OR		0004000 0		 Social Science S 	•	
GSC3350 - Exploring Earth's Oceans: Oceanography (3) (B5) OR		GSC4800 - Quantitative and Computer Skills in the Geosciences (3) GSC5030L - Field Investigations Laboratory (1)		Area E. Lifelong Learni	ing and Self-Development (3 un	
GSC3500 - Natural Disasters (3) (B5)		d3C3C3C - Field lifestigations Laboratory (1)		Interdiscipling	ry General Education	
300000 114.4.4.2.040.010 (0) (20)		GSC5330 - Advanced Topics in Structural Geology and Tectonics (2) and		III.e. uiscipiilia	iy deneral Education	
MAT1140 - Calculus I (4) (B4)		GSC5330L - Advanced Topics in Structural Geology and Tectonics Laboratory (1)			r partial fulfillment of GE Areas A	
MAT1150 - Calculus II (4) (B4)		GSC5340 - Quaternary Geology (2) and			al Education (IGE) program. Stu	
PHY1210 - Physics of Motion, Fluids, and Heat (3) (B1) and		GSC5340 - Quaternary Geology Laboratory (1)			ed by their major. Please refer to	
PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)		COOCOTOL Qualitary accords Euboratory (1)		Program section for ad		
OR		GSC5850 - Isotope Geochemistry (2) and			How IGE fulfills General Educa	
PHY1510 - Introduction to Newtonian Mechanics (3) (B1) and		GSC5850L - Isotope Geochemistry Laboratory (1)		Year	Completion of IGE Co.	
PHY1510L - Newtonian Mechanics Laboratory (1) (B3)		GSC5950 - Advanced Topics in Sedimentology/Stratigraphy (2) and		First	IGE 1100 IGE 1200	
PHY1220 - Physics of Electromagnetism, Circuits, and Light (3) and		GSC5950 - Advanced Topics in Sedimentology/Stratigraphy Laboratory (1)			IGE 1100, IGE 1200	
PHY1220L - Electromagnetism, Circuits, and Light Laboratory (1)		GSC XXXX - Other GSC course by petition (varies)		Second/Third	IGE 2100, IGE 2200	
DR The state of th		Geophysics/Earth Exploration Emphasis	18 units		IGE 2300, IGE 2400	
PHY1520 - Introduction to Electromagnetism and Circuits (3) and PHY1520L - Introductory Laboratory on Electromagnetism and Circuits (1)		Emphasis Required	9 units	Third/Fourth	IGE 3100	
ajor Electives 22 units GSC3200 - Studies of a Blue Planet (3) (B5) or				American Institutions		
Major Fieduves		GSC4050 - Planetary Science (2)				

Select 4 units from the list below:

GSC4100 - Presentation, Writing and Research Skills in the Geosciences (2)

GSC4610 - Senior Project and Presentation (2)

GSC4620 - Senior Thesis (2)

GSC 3XXX/4XXX - Any 3000/4000-level GSC course(s) (2-4)

GSC4950 - Planetary Science (3)

GSC4340 - Shallow Subsurface Geophysics (2)

GSC4340L - Shallow Subsurface Geophysics Laboratory (1)
GSC4500 - Introduction to Seismology, Earthquakes and Earth Structure (2)
GSC4500L - Introduction to Seismology, Earthquakes and Earth Structure Laboratory (1)

48 Units

eneral-education-course-listings.shtml

Inless specific courses are required, please Education Requirements, Areas A through E.

ical Thinking (9 units)

ng (12 units)

unit of lab from B1 or B2 to fulfill B3

units from sub-areas 1 and/or 2

- nd Civilization
- /alue Systems, and Ethics

units)

21 Units

as A, C, and D available for students is the Students should see an advisor for specific to the University Catalog General Education

cation Requirements:

Year	Completion of IGE Courses	Satisfies GE Requirements
First	IGE 1100, IGE 1200	A2 and C2
Second/Third	IGE 2100, IGE 2200	C1 and C2
	IGE 2300, IGE 2400	D1 and D3
Third/Fourth	IGE 3100	C3 or D4

6 Units

Courses that satisfy this requirement may also satisfy GE Area D1 and D2.

American Cultural Perspectives Requirement

3 Units

Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective 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.

Cal Poly Pomona

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Emphasis Electives	9 units	RS42
GSC3040 - Meteorology (3) (B5)		RS42
GSC3210 - Engineering Geology I (2) (B5) and GSC3210L - Engineering Geology I Laboratory (1) (B5)		URP Unr
GSC4010 - GIS Applications for Earth and Environmental Scientists (1) and GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2)		Sele "GE"
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 GSC5850L - Isotope Geochemistry Laboratory (1)		
PLT2310 - Basic Soil Science (2) and PLT2310L - Basic Soil Science Laboratory (1)		
PLT4310 - Soil Chemistry (2) and PLT4310L - Soil Chemistry Laboratory (1)		

Min. Units Required: 120 units
4200 - Watershed Restoration (2) and 4200L - Watershed Restoration Laboratory (1)
P4820 - California Water (3) (D4)
nrestricted Electives 0-3 units
lect a sufficient number of courses so that the total from "Major Required", "Major Electives", ", and "Unrestricted Electives" is at least 120 units.