CAL POLY POMONA

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

2018-2019 University Catalog Degree Curriculum Sheet

Major Required Core	62 units	Select 18 units from courses listed below to fulfill a chosen Emph	asis:	General Education Requirements	48 Un
BIO1110 - Life Science (2) (B2)		Geology Emphasis	18 units	Students should consult the Academic Programs website	
BIO1110L - Life Science Laboratory (1) (B3) CHM1210 - General Chemistry I (3) (B1)		Emphasis Required Core	10 units	https://www.cpp.edu/~academic-programs/genera	al-education-course-listings.shtml
CHM1210L - General Chemistry Laboratory I (1) (B3)		GSC3310 - Paleontology (2) and	10 unito	for current information regarding this requirement. Unless	=
CHM1210L - General Chemistry Laboratory I (1) (B3) 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 Educa	
CHM1220L - General Chemistry Laboratory II (1) (B3)		OR		• • • • • • • • • • • • • • • • • • • •	
GSC1110 - Principles of Geology (3) (B1)		GSC4440 - Tectonics (2) and		Area A. English Language Communication and Critical Ti	ninking (9 units)
GSC1120 - Earth, Time, and Life (3) (B1)		GSC4440L - Tectonics Laboratory (1)		Oral Communication	
GSC1410L - Principles of Geology Laboratory (1) (B3)		OR		Written Communication	
GSC1450L - Megascopic Petrography Laboratory (1) GSC1510L - Earth, Time, and Life Laboratory (1) (B3)		GSC4700 - Volcanology (2) and		Critical Thinking	
GSC2150 - Mineralogy (2)		GSC4700L - Volcanology Laboratory (1)		Area B. Scientific Inquiry and Quantitative Reasoning (12	units)
GSC2150L - Mineralogy Laboratory (1)		GSC4240 - Igneous and Metamorphic Petrology (2)		1. Physical Sciences	,
GSC2550L - Field Methods Laboratory (1)		GSC4240L - Igneous and Metamorphic Petrology Laboratory (2)		•	
GSC3000 - Geochemistry (2)		GSC4910L - Field Module Laboratory (1-2) (3 units required)		2. Life Sciences	
GSC3000L - Geochemistry Laboratory (1)			0 unito	3. Laboratory Activity	
GSC3070 - Introduction to Global Geophysics (2)		Emphasis Electives	8 units	4. Mathematics/Quantitative Reasoning	
GSC3070L - Introduction to Global Geophysics Laboratory (1)		GSC4010 - GIS Applications for Earth and Environmental Scientists (1) and		Science and Technology Synthesis	
GSC3230 - Geomorphology (2) GSC3230L - Geomorphology Laboratory (1)		GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2)		Area C. Arts and Humanities (12 units)	
GSC3330 - Structural Geology (2)		GSC4150 - Engineering Geology II (2) and		Visual and Performing Arts	
GSC3330L - Structural Geology Laboratory (1)		GSC4150L - Engineering Geology II Laboratory (1)		2a. Philosophy and Civilization	
GSC3600 - Hydrogeology (2)		account in the second s		. ,	
GSC3600L - Hydrogeology Laboratory (1)		GSC4320 - Soil Physics (2) and		2b. Literature and Language Other than English	
GSC4230 - Sedimentary Geology (2)		GSC4320L - Soil Physics Laboratory (1)		Arts and Humanities Synthesis	
GSC4230L - Sedimentary Geology Laboratory (1)		0004040 01-11- 0 1- (011(0)1		Area D. Social Sciences (12 units)	
GSC4910L - Field Module Laboratory (1-2) (1 unit required)		GSC4340 - Shallow Subsurface Geophysics (2) and		U.S. History and American Ideals	
GSC3040 - Meteorology (3) (B5)		GSC4340L - Shallow Subsurface Geophysics Laboratory (1)		2. U.S. Constitution and California Government	
OR		GSC4400 - Exploration and Mining Geology (2) and		3. Social Sciences: Principles, Methodologies, Value	Systems, and Ethics
GSC3200 - Studies of a Blue Planet (3) (B5)		GSC4400L - Exploration and Mining Geology Laboratory (1)		Social Science Synthesis	-,
lor () ()		7 0 07 7 7 7		Area E. Lifelong Learning and Self-Development (3 units)	
GSC3210 - Engineering Geology I (2) (B5) and		GSC4500 - Introduction to Seismology, Earthquakes and Earth Structure (2) and			
GSC3210L - Engineering Geology I Laboratory (1) (B5)		GSC4500L - Introduction to Seismology, Earthquakes and Earth Structure Laborator	y (1)	Interdisciplinary General Education	21 Un
GSC3350 - Exploring Earth's Oceans: Oceanography (3) (B5)		GSC4800 - Quantitative and Computer Skills in the Geosciences (3)		An alternate nation for modical fulfillment of OF Asses A	O and D available for students in the
IOR		GSC5030L - Field Investigations Laboratory (1)		An alternate pattern for partial fulfillment of GE Areas A, (
GSC3500 - Natural Disasters (3) (B5)		GOODOOL TION IIITOONGANONE EADOTANNY (1)		Interdisciplinary General Education (IGE) program. Stude	
1 de 2000 1 de 1		GSC5330 - Advanced Topics in Structural Geology and Tectonics (2) and		GE coursework required by their major. Please refer to the	e University Catalog General Educat
MAT1140 - Calculus I (4) (B4)		GSC5330L - Advanced Topics in Structural Geology and Tectonics Laboratory (1)		Program section for additional information.	
MAT1150 - Calculus II (4) (B4)		0005040 0 days 0 days (0) and		How IGE fulfills General Education	n Requirements:
DHV1010 Dhysics of Mation Eluido, and Host (2) (P1) and		GSC5340 - Quaternary Geology (2) and		Year Completion of IGE Cours	es Satisfies GE Requirements
PHY1210 - Physics of Motion, Fluids, and Heat (3) (B1) and PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)		GSC5340L - Quaternary Geology Laboratory (1)		Freshman IGE 1100. IGE 1200	A2 and C2b
OR		GSC5850 - Isotope Geochemistry (2) and			
PHY1510 - Introduction to Newtonian Mechanics (3) (B1) and		GSC5850L - Isotope Geochemistry Laboratory (1)		Sophomore IGE 2100, IGE 2200	C1 and C2a
PHY1510L - Newtonian Mechanics Laboratory (1) (B3)		, , , , , , , , , , , , , , , , , , ,		Junior IGE 2300, IGE 2400	D1 and D3
		GSC5950 - Advanced Topics in Sedimentology/Stratigraphy (2) and		Senior IGE 3100	C3 or D4
PHY1220 - Physics of Electromagnetism, Circuits, and Light (3) and		GSC5950L - Advanced Topics in Sedimentology/Stratigraphy Laboratory (1)			
PHY1220L - Electromagnetism, Circuits, and Light Laboratory (1)		CCC VVVV Other CCC source by netition (veries)		American Institutions	6 Un
PHY1520 - Introduction to Electromagnetism and Circuits (3) and		GSC XXXX - Other GSC course by petition (varies)	10	Courses that satisfy this requirement may also satisfy GE	Area D1 and D2
PHY1520L - Introductory Laboratory on Electromagnetism and Circuits (1)		Geophysics/Earth Exploration Emphasis	18 units	-	
Major Electives	22 units	Emphasis Required Core GSC3200 - Studies of a Blue Planet (3) (B5) or	9 units		dironione
Select 4 units from the list below:		GSC4950 - Planetary Science (3) GSC4950 - Planetary Science (3) Refer to the University Catalog General Education Program section for a list of course at satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted e			
GSC4100 - Presentation, Writing and Research Skills in the Geosciences (2)		CCC4040 Challow Cubaurface Coophysi (0)		requirements.	milot, GE, or unroditioned disculve
GSC4610 - Senior Project and Presentation (2)		GSC4340 - Shallow Subsurface Geophysics (2)		roquiromonia.	
GSC4620 - Senior Thesis (2)		GSC4340L - Shallow Subsurface Geophysics Laboratory (1) GSC4500 - Introduction to Seismology, Earthquakes and Earth Structure (2)		Graduation Writing Test	
000 0000/4000 4 - 0000/4000 1 - 1 000 / - / / 0 4)		GSC4500L - Introduction to Seismology, Earthquakes and Earth Structure Laborator	v (1)		
GSC 3XXX/4XXX - Any 3000/4000-level GSC course(s) (2-4)		• • • • • • • • • • • • • • • • • • • •		All persons who receive undergraduate degrees from Cal	
		Emphasis Electives	9 units	- Graduation writing rest (GWT). The test must be taken t	by the semester following completion
		GSC3040 - Meteorology (3) (B5)		60 units for undergraduates.	•

GSC3210 - Engineering Geology I (2) (B5) and GSC3210L - Engineering Geology I Laboratory (1) (B5)

GSC4010 - GIS Applications for Earth and Environmental Scientists (1) and GSC4010L - GIS Applications for Earth and Environmental Scientists Laboratory (2)

Min. Units Required: 120 units

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GSC4150 - Engineering Geology II (2) and GSC4150L - Engineering Geology II Laboratory (1)	
GSC4320 - Soil Physics (2) and GSC4320L - Soil Physics Laboratory (1)	
3SC4440 - Tectonics (2) and 3SC4440L - Tectonics Laboratory (1)	
3SC4700 - Volcanology (2) and 3SC4700L - Volcanology Laboratory (1)	
3SC4800 - Quantitative and Computer Skills in the Geosciences (3) 3SC4910L - Field Module Laboratory (1-2)	
3SC5330 - Advanced Topics in Structural Geology and Tectonics (2) and 3SC5330L - 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 Core	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
3IO3040 - Environment and Society (3) (B5) GEO3030 - Climatology (3) (B5)	o umo
GEO4400 - Advanced GIS (2) and GEO4400L - Advanced GIS Laboratory (1)	
GEO4430 - Quantitative Spatial Analysis (2) and GEO4430L - Quantitative Spatial Analysis Laboratory (1)	
2004400 144 1 04 1 144 14(0) (D4)	
aSC1100 - Water in a Changing World (3) (B1)	
GSC4340 - Shallow Subsurface Geophysics (2) and	
GSC4340 - Shallow Subsurface Geophysics (2) and GSC4340L - Shallow Subsurface Geophysics Laboratory (1)	
GSC4340 - Shallow Subsurface Geophysics (2) and GSC4340L - Shallow Subsurface Geophysics Laboratory (1) GSC4910L - Field Module Laboratory (1-2) GSC5450 - Advanced Hydrogeology (2) and	
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	
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	
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) PLT4310L - Soil Chemistry (2) and PLT4310L - Soil Chemistry (2) and	
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	