



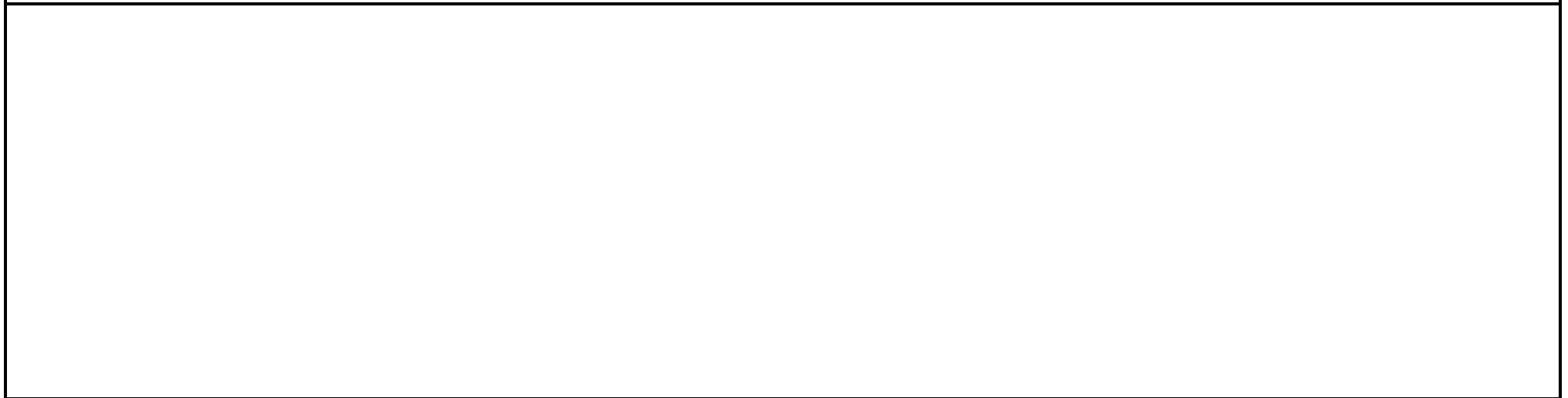
California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major)	Geology BS	Catalog Year	2018-2019	Student Name:		TGA
Subplan / Option	(Three Emphasis Areas)	Minimum Units Required	120	Student ID:		GWT Satisfied ___ Yes ___ No

Required Core Courses			Required Core Courses Con't.			GE Area		Units
Course Name	Course Number	Units	Course Name	Course Number	Units			
Principles of Geology (B1)	GSC 1110	3	Life Science/Lab (B2, B3)	BIO 1110/1110L	2/1	Area A Communication & Critical Thinking		9
Principles of Geology Lab (B3)	GSC 1410L	1	General Chemistry I (B1, B3)	CHM 1210/1210L	3/1	Sub-Areas	1 Oral Communication	
Earth Time and Life (B1)	GSC 1120	3	General Chemistry II	CHM 1220/1220L	3/1		2 Written Communication	
Earth Time and Life Lab (B3)	GSC 1510L	1	Calculus I (B4)	MAT 1140	4		3 Critical Thinking	
Megascopic Petrography Lab	GSC 1450L	1	Calculus II (B4)	MAT 1150	4	Area B Mathematics & Natural Sciences		12
Mineralogy/Lab	GSC 2150/L	2/1	Physics of Motion, Fluids, and Heat/Lab (B1/B3) (or)	PHY 1210/1210L	3/1	Sub-Areas: (Select at least one lab course from sub-area 1, 2 or 3)	1 Physical Science	
Field Methods Laboratory	GSC 2550L	1	Introduction to Newtonian Mechanics/Labs (B1/B3)	PHY 1510/1510L	(3/1)		2 Biological Science	
Geochemistry/Lab	GSC 3000/L	2/1	Physics of Electromagnetism, Circuits, and Light /Lab(or)	PHY 1220/1220L	3/1		3 Laboratory Activity	
Introduction to Global Geophysics	GSC 3070/L	2/1	Introduction to Electromagnetism and Circuits/Lab	PHY 1520/1520L	(3/1)		4 Math/Quantitative Reasoning	
Geomorphology/Lab	GSC 3230/L	2/1	GE Area B5 (GSC 3040, 3200, 3210, 3350, or 3500)	Choose one	3		5 Science & Technology Synthesis	
Structural Geology/Lab	GSC 3330/L	2/1		Total Units	62	Area C Humanities		12
Hydrogeology/Lab	GSC 3600/L	2/1				Sub-Areas	1 Visual and Performing Arts	
Sedimentary Geology/Lab	GSC 4230/L	2/1					2 Philosophy and Civilization	
Field Module Laboratory	GSC 4910L	1					3 Literature and Foreign Language	
							4 Arts and Humanities Synthesis	
			Double Counted Courses			Area D Social Sciences		12
Elective Core Courses (Senior Capstone)			The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.			Sub-Areas	1 U.S. History and American Ideals	
							2 US Constitution and California Government	
							3 Social Sciences	
							4 Social Science Synthesis	
						Area E Lifelong Understanding & Self Development		3
Course Name	Course Number	Units	Course Name	Course Number	GE Area	Units		
<i>Select 4 units from the list below:</i>			General Chemistry I	CHM 1210/1210L	B1,B3	3/1		
Senior Project and Presentation	GSC 4610	2	Life Sciences	BIO 1110/1110L	B2,B3	2/1		
Senior Thesis	GSC 4620	2	Calculus I	MAT 1140	B4	4		

Presentation, Writing, and Research Skills in Geosciences	GSC 4100	2	GSC Synthesis course	GSC 3040, 3200, 3210, 3350, or 3500	B5	3	Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements		
Any GSC 300 or 400 course(s)		2-4							
Total Units		4	*1 unit of MAT1140 and 1 unit of B3 lab do not double count		Total Units*	12			
								American Institutions	6
Restricted Elective Units (see p. 2 Emphases)		18	The remaining GE requirements may be satisfied by any course approved for that area			Courses that satisfy this requirement may also satisfy GE Area D1			
Unrestricted Elective Units		0				American Cultural Perspectives Requirement			
								Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements	3
No more than 70 community college semester units or 24 extension credit quarter units may be applied toward a Bachelor's degree.									

A minimum 2.0 cumulative GPA is required in core + service courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.



Restricted Electives (select 18 units from courses listed below to fulfill a chosen Emphasis; these should be a combination of Required Courses and Approved Elective Courses)								
Geology Emphasis Required Courses (10 units):			Geophysics / Earth Exploration Emphasis Required Courses (9 units):			Environmental Resources Emphasis Required Courses (12 units):		
Course Name	Course Number	Units	Course Name	Course Number	Units	Course Name	Course Number	Units
Igneous and Metamorphic Petrology/Lab	GSC 4240/L	2/2	Shallow Subsurface Geophysics/Lab	GSC 4340/L	2/1	Exploring The Oceans: Oceanography (B5)	GSC 3350	3
Field Module Laboratory	GSC 4910L	3 units total	Intro to Seismology, Earthquakes, and Earth Structure/Lab	GSC 4500/L	2/1	GIS Applications for Earth and Environmental Scientists/Lab	GSC 4010/L or	1/2
Tectonics/Lab (or)	GSC 4440/L	2/1	Planetary Science (or)	GSC 4950	3	Soil Physics/Lab	GSC 4320/L	2/1
Volcanology/Lab (or)	GSC 4700/L	(2/1)	Studies of a Blue Planet (B5)	GSC 3200	(3)	Meteorology (B5) (or)	GSC 3040	3
Paleontology/Lab	GSC 3310/L	(2/1)				Studies of a Blue Planet (B5)	GSC 3200	(3)

Total Units			Total Units			Total Units		
10			9			12		
Geology Emphasis Approved Elective Courses (8 Units):			Geophysics / Earth Exploration Emphasis Approved Elective Courses (9 units):			Environmental Resources Emphasis Approved Elective Courses (6 units):		
Course Name	Course Number	Units	Course Name	Course Number	Units	Course Name	Course Number	Units
GIS Applications for Earth and Environmental Scientists/Lab	GSC 4010/L	1/2	GIS Applications for Earth and Environmental Scientists/Lab/	GSC 4010/L	1/2	Water In a Changing World (B1)	GSC 1100	3
Shallow Subsurface Geophysics/Lab	GSC 4340/L	2/1	Field Module Laboratory	GSC 4910L	1 or 2	Shallow Subsurface Geophysics/Lab	GSC 4340/L	2/1
Soil Physics/Lab	GSC 4320/L	2/1	Engineering Geology I/Lab	GSC 3210/L	2/1	Watershed Restoration/Lab	RS 4200/L	2/1
Engineering Geology II/Lab	GSC 4150/L	2/1	Engineering Geology II/Lab	GSC 4150/L	2/1	Field Module Laboratory	GSC 4910L	1 or 2
Intro to Seismology, Earthquakes, and Earth Structure/Lab	GSC 4500/L	2/1	Quantitative and Computer Skills in the Geosciences	GSC 4800	3	Advanced Hydrogeology/Lab	GSC 5450/L	2/1
Quantitative and Computer Skills in the Geosciences	GSC 4800	3	Tectonics/Lab	GSC 4440/L	2/1	Isotope Geochemistry/Lab	GSC 5850/L	2/1
Exploration and Mining Geology/Lab	GSC 4400/L	2/1	Meteorology (B5)	GSC 3040	2/1	Other GSC course by petition	GSC XXXX	Varies
			Soil Physics/Lab	GSC 4320/L	2/1	California Water (D4)	URP 4820	3
Field Investigations Lab	GSC 5030L	1	Volcanology/Lab	GSC 4700/L	2/1	Basic Soil Science/Lab	PLT 2310/L	2/1
Advanced Topics in Structural Geology and Tectonics/Lab	GSC 5330/L	2/1				Soil Chemistry/Lab	PLT 4310/L	2/1
Quaternary Geology/Lab	GSC 5340/L	2/1	Advanced Shallow Subsurface Geophysics/Lab	GSC 5640/L	2/1	Climatology/Lab (B5, B3)	GEO 3030/L	2/1
Isotope Geochemistry/Lab	GSC 5850/L	2/1	Topics in Advanced Seismology/Lab	GSC 5680/L	2/1	Advanced GIS I/Lab	GEO 4400/L	2/1
Advanced Topics in Sedimentary Geology / Stratigraphy /Lab	GSC 5950/L	2/1	Advanced Topics in Structural Geology & Tectonics/Lab	GSC 5330/L	2/1	Quantitative Spatial Analysis/Lab	GEO 4430/L	2/1
Other GSC course by petition	GSC XXXX	Varies	Other GSC course by petition	GSC XXXX	Varies	Environment and Society (B5)	BIO 3040	3
Total Units			Total Units			Total Units		
8			9			6		