

California State Polytechnic University, Pomona Degree Curriculum Sheet

Plan (Major) GEOLOGY	Catalog Year	2012-2013	Name	TGΔ		
Subplan/Option	Minimum Units Require	ed 180	Student ID	GWT Satisfied	Yes	N

Required Core Courses		
Course		Units
Principles of Geology Earth, Time and Life Principles of Geology Lab Earth, Time and Life Lab Mineralogy Field Methods Lab Introduction to Geochemistry Introduction to Global Geophysics GIS Applications for Earth Scientists I or GIS Applications for Earth Scientists II Geomorphology Structural Geology Groundwater Geology Earth Science Seminar Senior Project Senior Presentation Senior Thesis or Writing for the Professions or Report Writing or Technical Communication and Documentation	GSC 1111 GSC 1122 GSC 141L GSC 151L GSC 215/215L GSC 255L GSC 300/300L GSC 307/307L GSC 310/310L GSC 311/311L GSC 323/323L GSC 330/360L GSC 410 GSC 461 GSC 462 GSC 463 ENG 301 COM 216 CE 362/362A	4 3 1 1 3/1 2 3/1 3/1 1/2 (1/2) 3/1 3/1 3/1 2 2 2 (4) (4) (2/1)
	Total Units	47-49

Required Support Courses		
Course		Units
Life Science (B2, B3)	BIO 110/111L	3/1
or Basic Biology/Activity (B2, B3)	BIO 115/115A/115L	(3/1/1)
General Chemistry (B1,B3)	CHM 121/121L	3/1
General Chemistry	CHM 122/122L	3/1
General Chemistry	CHM 123/123L	3/1
Natural Disasters (B5)	GSC 350	4
Analytic Geom & Calc I (B4)	MAT 114	4
Analytic Geom & Calc II	MAT 115	4
Analytic Geom & Calc III	MAT 116	4
or Quantitative Applications in the Earth	Sciences GSC 225	(4)
College Physics	PHY 121/121L	3/1
or General Physics	PHY 131/131L	(3/1)
College Physics	PHY 122/122L	3/1
or General Physics	PHY 132/132L	(3/1)
College Physics	PHY 123/123L	3/1
or General Physics	PHY 133/133L	(3/1)
	Total Units	44-45

Restricted Support Electives	
Course	Units
Choose 34 units from a chosen Emphasis on the back side	34
Total Units	34

Unrestricted Electives	
Course	Units
Select a sufficient number of courses so that the total from "Required Core", "Required Support", "GE", and "Unrestricted Electives" is at least 146 units.	0-3
Total Units	0-3

Area	Education Requirements	Units
Area A	Communication & Critical Thinking	12
1	Oral Communication	
2	Written Communication	
3	Critical Thinking	
Area B	Mathematics & Natural Sciences	16
Select a	t least one lab course from sub-area 1 or 2.	
1	Physical Science	
2	Biological Science	
3	Laboratory Activity	
4	Math/Quantitative Reasoning	
5	Science & Technology Synthesis	
	Humanities	16
1	Visual and Performing Arts	
2	Philosophy and Civilization	
3	Literature and Foreign Language	
4	Humanities Synthesis	
Area D	Social Sciences	20
1	U.S. History, Constitution, American Ideals	
2	History, Economics and Political Science	
3		
4	Social Science Synthesis	
Area E	Lifelong Understanding & Self Development	4
	Total Units	68

Courses that sa D1	ntisfy this requirement may also satisfy G.E. Area	8
Refer to catalog	tural Perspectives Requirement g for list of courses that satisfy this requirement. o satisfy major, minor, GE, or unrestricted elective	4

American Institutions

requirements.

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.

Course		GE Area
General Chemistry	CHM 121/121L	B1, B3
Life Science	BIO 110/110L	B2, B3
or Basic Biology	BIO 115/115A/115L	(B2, B3)
Calculus I	MAT 114	B4
Natural Disasters	GSC 350	B5

The remaining GE requirements may be satisfied by any course approved for that area.

College of Science Geology Tracks 2012-13

Select one of the following Tracks:

Geology Emphasis

Course		Units
Optical Mineralogy/Lab	GSC 325/325L	2/2
Invertebrate Paleontology/Lab	GSC 331/331L	3/1
Sedimentary Geology/Lab	GSC 423/423L	3/2
Igneous and Metamorphic Petrology	GSC 424	3
Igneous and Metamorphic Petrography Lab	GSC 425L	2
Ore Deposits/Lab or Geotectonics/Lab	GSC 433/433L	3/1
Summer Field Geology Lab or four Field Module Labs	GSC 444/444L GSC 490L GSC 491L	8
Choose 4 additional units from 300 or 400 level		
GSC courses to complete 34 units for this Track.		4
Total Units		34

Geophysics/Earth Exploration Emphasis

Course		Units
Introduction to Astronomy	GSC 116	
or Introduction to Oceanography	GSC 120	4
Meteorology	GSC 304	4
or Studies of a Blue Planet	GSC 320	(4)
or Planetary Science	GSC 495	(4)
Engineering Geology I/Lab	GSC 321/321L	3/1
Engineering Geology II/Lab	GSC 415/415L	3/1
Shallow Subsurface Geophysics/Lab	GSC 434/434L	3/1
Introduction to Seismology, Earthquakes		
and Earth Structure/Lab	GSC 450/450L	3/1
Field Module Lab	GSC 491L	2
Introduction to C++	CS 128	4
or Introduction to Computer Sci.	CS 140	(4)
Choose 4 additional units		1
from 300 or 400 level		
GSC courses to complete		
34 units for this Track.		4
Total Units		34

Environmental Resources Emphasis (Choose 34 units from the list of classes outlined below)

Course Units		Units	continued Course		Units
Meteorology	GSC 304	4	Ethical Considerations in Technology and Applied Science	EGR 402	4
Studies of a Blue Planet	GSC 320	4	Climatology	GEO 303	4
Exploring the Oceans: Oceanography	GSC 335	4	Advanced Geographic Information Systems I/Activity	GEO 442/442A	3/1
Shallow Subsurface Geophysics/Lab	GSC 434/434L	3/1	Advanced Geographic Information Systems II/Activity	GEO 443/443A	3/1
Field Module Lab	GSC 491L	2	Energy and Society	PHY 301	4
Planetary Science	GSC 495	4	Basic Soil Science	PLT 231/231L	3/1
Environment and Society	BIO 304	4	Current Applications in Regenerative Studies/Lab	RS 414/414L	3/1
Environmental Resource Management/Lab	CE 351/351L	3/1	California Water	URP 482	4
Water Resource Management	EC 439	4	Total Units		34
	see	next column			