GEOLOGY

California State Polytechnic University, Pomona **Degree Curriculum Sheet**

Plan (Major)	GEULU
Subplan/Op	tion

Required Core Courses

Principles of Geology

Earth, Time and Life

Field Methods Lab

Geomorphology

Senior Thesis

Senior Thesis

Senior Seminar

or Report Writing

Structural Geology

Groundwater Geology

Earth Science Seminar

or Writing for the Professions

Principles of Geology Lab

Earth, Time and Life Lab

Introduction to Geochemistry

Introduction to Global Geophysics

GIS Applications for Earth Scientists I

or GIS Applications for Earth Scientists II

or Technical Communication and Documentation

Course

Mineralogy

GSC 111

GSC 112

GSC 141L

GSC 151L

GSC 255L

GSC 215/215L

GSC 300/300L

GSC 307/307L

GSC 310/310L

GSC 311/311L

GSC 323/323L

GSC 333/333L

GSC 360/360L

GSC 410

GSC 461

GSC 462

GSC 463

ENG 301

COM 216

Total Units 46-48

CE 362/362A

Units

4

3

1

1

3/1

2

3/1

3/1

1/2

(1/2)

3/1

3/1

3/1

2

2

2

2

(4) (4)

(2/1)

2011 2012 Minimum Units Required

Catalog Year

Name Student ID

2U I	1-20	12	
		400	

Nequireu Support courses		1
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 S	ciences 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.	0-4			
Total Units	0-4			

		Units
Area A	Communication & Critical Thinking	12
1	Oral Communication	
2	Written Communication	
3	Critical Thinking	
Area B	Mathematics & Natural Sciences	16
Select a	it 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	
Area C	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	Sociology, Anthropology, Ethnic & Genuer Studies	
4	Social Science Synthesis	
Aron L	\cdot	
Area E		4
Area E	Total Units	4 68
Area E Americ Courses D1	Total Units an Institutions that satisfy this requirement may also satisfy G.E. Area	4 68 8
Area E Americ Courses D1 Americ Refer to Course requirer	Total Units an Institutions that satisfy this requirement may also satisfy G.E. Area an Cultural Perspectives Requirement to catalog for list of courses that satisfy this requirement. may also satisfy major, minor, GE, or unrestricted elective nents.	4 68 8 4
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Area E Americ Courses D1 Americ Refer to Course requirer The foll indicate at the to Course Genera Life Sc or B Calculu Natura	Total Units Total Units Total Units can Institutions that satisfy this requirement may also satisfy G.E. Area can Cultural Perspectives Requirement octatalog for list of courses that satisfy this requirement. may also satisfy major, minor, GE, or unrestricted elective nents. owing required support courses should be taken to satisfy thi d GE Requirements to achieve the minimum units to degree op of this sheet. Il Chemistry CHM 121/121L II Chemistry CHM 121/121L asic Biology BIO 110/110L MAT 114 I Disasters	4 68 8 4 listed B1, B B2, B (B2, B (B2, B B4 B5

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.

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

Evaluator _

General Education Requirements

GWT Satisfied Yes

No

College of Science Geology Tracks 2011-12

Select one of the following Tracks:

Geology Emphasis

Geophysics/Earth Exploration 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 GSC 444/444L	3/1
Summer Field Geology Lab or <i>four</i> Field Module Labs	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

Course		Units
Introduction to Astronomy	GSC 116	
or Introduction to Oceanography	GSC 120	4
Meteorology	GSC 304	
or Studies of a Blue Planet	GSC 320	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
Fortuge	00.405	
Fortran	CS 125	
or Introduction to C++	CS 128	
or Introduction to Computer Sci.	CS 140	4
Choose 4 additional units		
trom 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)

			continued		
Course		Units	Course		Units
			Ethical Considerations in		
Meteorology	GSC 304	4	Technology and Applied Science	EGR 402	4
Studies of a Blue Planet	GSC 320	4	Climatology	GEO 303	4
Exploring the Oceans:			Advanced Geographic Information		
Oceanography	GSC 335	4	Systems I/Activity	GEO 442/442A	3/1
Shallow Subsurface			Advanced Geographic Information		
Geophysics/Lab	GSC 434/434L	3/1	Systems II/Activity	GEO 443/443A	3/1
Field Module Lab	GSC 491L	2	Energy and Society	PHY 301	4
			Current Applications in Regenerative		
Environment and Society	BIO 304	4	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					