

**GEOLOGICAL SCIENCES - General Geology Option**  
**Sample Four-Year Degree Plan**  
**Bachelor of Science Degree in Geological Sciences (total: 120 Units in the Major)**

	Fall 2016		Spring - 2017		Summer		Total
	Courses	Units	Courses	Units	Courses	Units	
Year 1	GE US history	3	GE A3	3			30
	Geol 1500	3	Geog 1550	3			
	NSS1001 (E)(cl)	3	GE C (1 of 2)	3			
	GE A1	3	GE C (2 of 2)	3			
	GE A2	3	GE D (1 of 2)	3			
	Total	15	Total	15	Total	0	

	Fall - 2017		Spring - 2018		Summer		Total
	Courses	Units	Courses	Units	Courses	Units	
Year 2	GEOL 2520	4	Geol 3600	3			31
	Geog 2680	4	GE US Constitution	3			
	Geol 3010	3	GE D (2 of 2)	3			
	Math 2110	4	Math 2120	4			
			GE E (1 of 1)	3			
	Total	15	Total	16	Total	0	

	Fall - 2018		Spring - 2019		Summer		Total
	Courses	Units	Courses	Units	Courses	Units	
Year 3	Chem 1100	5	Geol 4xxx	3			29
	GEOL 4100	3	Geol 4010	4			
	GE B2	3	Chem 1110	5			
	UD-GE-A	3	UD-GE-B	3			
	Total	14	Total	15	Total	0	

	Fall - 2019		Spring - 2020		Summer		Total
	Courses	Units	Courses	Units	Courses	Units	
Year 4	Geol 4020	3	Geol 4300	3	Geol 4600A&B	3	31
	Geol 4xxx	3					
			Geol 4xxx	3			
	Phys 1100	5	Phys 1200	5			
	UD-GE-C	3	Geol 4590	3			
	Total	14	Total	14	Total	3	

**121**

- I. Foundational Courses**
- Chem 1100
  - Chem 1110
  - Math 2110 Calc-I
  - Math 2120 Calc-II
  - Phys 1100
  - Phys 1200

- II. Lower Division Required Courses**
- GEOL 1500 Earth Revealed
  - GEOG 1550 Cultural Geography
  - GEOL 2520 Historical Geology
  - Geog 2680 Intro to geospatial analyses

- III. Upper Division Required Courses**
- GEOL 3010 Mineralogy and Petrology
  - GEOL 3600 Mapping
  - GEOL 4020 Sedimentary Geology
  - GEOL 4100 Structural Geology
  - GEOL 4010 Ig&Met
  - Geol 4590 Geological Reports
  - Geol 4300 Stratigraphy
  - Geol 4600A&B Summer Field

**Possible Electives (Select courses from the following list)**  
Other courses may be substituted with prior advisor approval.

- GEOG 4100 - Applied Climatology (3)
- GEOL 4300 - Stratigraphy and Sedimentology (4)
- GEOL 3210 - Geology of Southern California (3)
- GEOL 3700 - Geochemistry (3)
- GEOL 4222 - Forensic and Isotope Geochemistry (3)
- GEOL 4330 - Quaternary Geology (3)
- GEOL 4340 - Volcanology (3)
- GEOL 4350 - Coastal Processes and Environments (3)
- GEOL 4810 - Engineering Geology (3)
- GEOL 4830 - Photogeology (3)
- GEOL 4850 - Groundwater Management and Models (3)
- GEOL 4900 - Special Topics in Geology (1-3)
- GEOL 4910 - Special Laboratory Topics in Geology (1-2)
- GEOL 4990 - Undergraduate Directed Study (1-3)
- GEOG 3690 - Fundamentals of Geographic Information Systems (3)
- GEOG 4020 - Geomorphology (3)
- GEOG 4650 - GIS Applications in Environmental Studies (3)
- GEOG 4660 - Remote Sensing (3)
- GEOG 4680 - Digital Cartography (3)
- GEOG 4690 - Spatial Analysis and GIS Modeling (3)

<sup>1</sup>Remedial math and/or English course may be required depending on the entering student's score on standard placement tests (ELM and EPT)  
<sup>2</sup>Students must complete Math 1040 prior to enrolling in Math 2110 (\*Prerequisite: Score of 50 or more on (or exemption from) ELM or MATH 0930 with a minimum C grade or satisfactory score on placement)  
<sup>3</sup>Chem 1100 - Prerequisites: Score of 50 or more on (or exemption from) ELM or MATH 0930 with a minimum C grade  
<sup>4</sup>The Writing Proficiency Examination (WPE) must be passed prior to completion of 90 semester units, including transferable units.