

**Conversion Guide: Comparison of GSC Quarter and Semester Courses in Geology BS Degree Program**

**Required Core Courses**

Quarter Course No.	Course Name	Quarter Units	Semester Course Number	Semester Units	Comment
GSC 111	Principles of Geology	4	GSC 1110	3	
GSC 112	Earth, Time & Life	3	GSC 1120	3	
GSC 141L	Principles of Geology Lab	1	GSC 1410L	1	
GSC 145L	Megascopic Petrography Lab	1	GSC 1450L	1	
GSC 151L	Earth, Time & Life Lab	1	GSC 1510L	1	
GSC 215/215L	Mineralogy	3/1	GSC 2150/2150L	2/1	
GSC 255L	Field Methods Lab	2	GSC 2550L	1	
GSC 300/300L	Intro to Geochemistry	3/1	GSC 3000/3000L	2/1	
GSC 307/307L	Intro to Global Geophysics	3/1	GSC 3070/3070L	2/1	
GSC 323/323L	Geomorphology	3/1	GSC 3230/3230L	2/1	
GSC 333/333L	Structural Geology	3/1	GSC 3330/3330L	2/1	
GSC 360/360L	Hydrogeology	3/1	GSC 3600/3600L	2/1	
GSC 410	Earth Science Seminar	2			Renamed: "Presentation, Writing, and Research Skills in Geosciences"; shifted to Elective Core below
GSC 401/401L	GIS Applications I (or	1/2	GSC 4010/4010L	1/2	Combination of GSC 401 and GSC 411; renamed "GIS Applications for Earth and Environmental Scientists"
GSC 411/411L	or GIS Applications II	1/2			Requirement Discontinued under semesters
			GSC4230/4230L	2/1	Sedimentary Geology: Shifted from Geology Emphasis Restricted Elective to Core Requirement

**Elective Core Courses--6 Qtr units or 4 Semester Units are Required from list below**

Quarter Course No.	Course Name	Quarter Units	Semester Course Number	Semester Units	Comment
GSC 461	Senior Project	2	GSC 4610	2	GSC 461 and 462 are combined and renamed "Senior Project and Presentation"
GSC 462	Senior Presentation	2	GSC 4620	2	Renamed Senior Thesis
GSC 463	Senior Thesis	2			Course Discontinued under semesters
			GSC 4100	2	GSC 410 is Renamed: "Presentation, Writing, and Research Skills in Geosciences"
GSC 3XX or 4XX	Upper Division GSC Course(s)	2 - 6	GSC 3XX or 4XX	2-4	
ENG 301	Writing for the Professions	4			Elective Discontinued under semesters
CE 362/362A	or Tech Comm and Doc	2/1			Elective Discontinued under semesters

**Restricted Elective Courses--34 Quarter units or 18 Semester Units are Required from list below, specific courses depend on chosen Emphasis Area--  
Please See Curriculum Sheet**

Quarter Course No.	Course Name	Quarter Units	Semester Course Number	Semester Units	Comment
GSC 325/325L	Optical Mineralogy	2/2			Discontinued under semesters; quarter credits can be applied as Upper Division GSC Elective
GSC 331/331L	Invertebrate Paleontology	3/1	GSC 3310/3310L	2/1	
GSC 423/423L	Sedimentary Geology	3/2			Moved to Core Requirements
GSC 424	Igneous & Metam Petrology	3	GSC 4240/L	2/2	Combination of GSC 424 and 425L; retains two labs
GSC 425L	Igneous & Metam Petrology Lab	2			Discontinued under Semesters
GSC 433/433L	Ore Deposits	3/1			Discontinued under semesters; quarter credits can be applied as Upper Division GSC Elective
GSC 444/444L	Geotectonics	3/1	GSC 4440/4440L	2/1	Renamed "Tectonics"
GSC 490L	Summer Field Geology Lab	8			Course Discontinued under Semesters
GSC 491L	Field Module Lab	2	GSC 4910L	1	Occasionally, longer sessions may be offered for 2 units
GSC 320	Studies of a Blue Planet	4	GSC 3200	3	
GSC 495	Planetary Science	4	GSC 4950	3	
GSC 321/321L	Engineering Geology	3/1	GSC 3210/3210L	2/1	
GSC 415/415L	Engineering Geology II	3/1	GSC 4150/4150L	2/1	
GSC 434/434L	Shallow Subsurface Geophysics	3/1	GSC 4340/4340L	2/1	
GSC 450/450L	Intro to Seismo, Earthquakes, Earth Structure	3/1	GSC 4500/4500L	2/1	
GSC 304	Meteorology	4	GSC 3040	3	
GSC 335	Explore the Oceans: Oceanogr	4	GSC 335	3	
GSC 432/432L	Soil Physics	3/1	GSC 432/432L	2/1	
RS 414/414L	Current App in Regen Studies	3/1	RS 4200/4200L	2/1	Renamed to "Watershed Restoration"
GSC 110	Water in a Changing World	4	GSC 1100	3	
		4	GSC 4700	2/1	New Restricted Elective Course: "Volcanology"
		4	GSC 4800	2/1	New Restricted Elective Course: "Quantitative and Computer Skills in Geosciences"
			GSC 3XXX or 4XXX	varies	Other GSC Course Allowed by Petition
BIO 304	Environment and Society	4	BIO 3040	3	
GEO 303	Climatology	4	GEO 3030/L	2/1	
GEO 442/442A	Adv Geographic Info Systems I	3/1	GEO 4400/L	2/1	Renamed to "Advanced GIS I"
GEO 443/443A	Adv Geographic Info Systems II	3/1	GEO 4430/L	2/1	Renamed to "Quantitative Spatial Analysis"
PHY 301	Energy and Society	4	PHY 3010	3	
PLT 231/231L	Basic Soil Science	3/1	PLT 231/231L	2/1	
PLT 431/431L	Soil Chemistry	3/1	PLT 431/431L	2/1	
URP 482	California Water	4	URP 4820	3	
GSC 116	Intro to Astronomy	4	GSC 1160	3	Elective Discontinued under semesters
GSC 120	Intro to Ocenography	4	GSC 1200	3	Elective Discontinued under semesters
GSC 195	Earthquake Country	4	GSC 1950	3	Elective Discontinued under semesters
CS 128	Intro to C++	3/1	CS 128	3	Elective Discontinued under semesters
CS 140	or Intro to Computer Science	4	CS 140	3	Elective Discontinued under semesters
CE 351/351L	Environmental Engineering	3/1	CE 3510/3510L	2/1	Elective Discontinued under semesters
EC 439	Water Resource Management	4	EC 4390	3	Elective Discontinued under semesters
IME 402	Ethical Con in Tech & App Sci	4	IME 4020	3	Elective Discontinued under semesters