

Tentative Q2S Schedule 2018-19 through 2021-22

Quarters									Semesters								
SBC	F18	W19	S19	Su19	F19	W20	S20	Su20			F20	S21	Su21	F21	S22	Su22	
GEOL 101	X	X	X	X	X	X	X	X	Intro to Geology		GEOL 1000	X	X	X	X	X	Introductory Geology
											GEOL 1020			X	X		Plate Tectonics
											GEOL 1060		X	X	X		Env Geol & Geol Haz
											GEOL 1000L	X	X				Int Geol Lab
GEOL 102	X	X	X		X	X	X		Intro to Geology Lab		GEOL 1060L		X	X	X		Env Geol Lab
GEOL 205	X	X	X	X	X	X	X		Volcanic Hazards								
											GEOL2040						Water in the West
											GEOL3020	X				X	Nat Disasters
GEOL 210	X	X	X		X	X	X	X	Earthquakes		GEOL 3030		X			X	Earth Sys. History
GEOL 309	X				X				Blue Planet		GEOL 3090		X		X		Blue Planet
											GEOL 3040			X		X	Energy and Env
GEOL 250			X				X		Historical Geology	Leatham	GEOL 2000		X		X		Historical Geology
GEOL 301	X				X				Intro to Geologic Mapping	Fryxell	GEOL 3100	X			X		Intro to Geologic Mapping
GEOL 312		X				X			Geology of California	All	GEOL 2500	X			X		Geology of California
GEOL 320	X				X				Min and Crystal	Lazar	GEOL 3200	X			X		Mineralogy
GEOL 321		X				X			Optical Mineralogy								
GEOL 322			X				X		Intro to Geochemistry	Melchoirre/Lazar	GEOL 3220		X			X	Intro to Geochemistry
GEOL 325			X				X		Igneous and Meta Petrology	Lazar	GEOL 3240		X			X	Igneous and Meta Petrology
GEOL 330		X				X			Sedimentary Geology I	Leatham	GEOL 3300	X			X		Sedimentary Geology: Principles and Applications
GEOL 340			X				X		Sedimentary Geology II	Leatham	GEOL 3400						Sedimentary Geology: Environmental Systems Analysis
GEOL 350	X				-				Paleontology	Leatham	GEOL 3500						Paleontology
GEOL 360		X				X			Structural Geology	Fryxell	GEOL 3600		X			X	Structural Geology
GEOL 370			?						Tectonics	Fryxell	GEOL 5200						Tectonics
GEOL 375	X				X				Groundwater Hydrology	Melchoirre	GEOL 3700	X			X		Groundwater Hydrology
GEOL 376		X				X			Field Methods Hydrology	Melchoirre	GEOL 3750						Field Methods Hydrology
GEOL 391B		X	X			X	X		Adv. Geologic Mapping	All	GEOL 3902	X			X		Adv. Field Geology
GEOL 391D	X				X				Adv. Geologic Mapping	All	GEOL 3904		X			X	Adv. Field Geology
GEOL 398			X				X		Geol Res Methods & Design	All	GEOL 3990		X			X	Geol Res Methods & Design
GEOL 399	X				X				UG Geological Research	All	GEOL 4000	X			X		UG Geological Research
GEOL 430			X				X		Engineering Geology	Cato	GEOL 4100		X			X	Engineering Geology
GEOL 530									Scan. Electron Microscop.	Biol	GEOL 5300						Scan. Electron Microscop.
GEOL 540									Advanced Topics in Geology	All	GEOL 5000						Advanced Topics in Geology
GEOL 545									Lab for Advance Topics in Geo	All	GEOL 5000L						Lab for Advance Topics in Geo
GEOL 550						X			Earth Resources	Melchoirre	GEOL 5600						Earth Resources
GEOL 551					-				Neotectonic and Seismic Haz	Cato	GEOL 5220						Neotectonic and Seismic Haz
GEOL 554	X								GeoThermodynamics	Lazar							
GEOL 555					X				Siting and Site Investigations	Cato	GEOL 5620						Site Investigation, Siting, and Case Histories in Engineering Geology
GEOL 556						X			Case History in Eng Geol	Cato							
GEOL 590			X				X		Senior Seminar	All	GEOL 4900		X			X	Senior Seminar
GEOL 591					X				Digital Mapping	Melchoirre	GEOL 5280						Digital Mapping
MSEES	F18	W19	S19	Su19	F19	W20	S20	Su20			F20	S21	Su21	F21	S22	Su22	
GEOL 610		X							Environmental Geosciences	Cato/Melchoirre	GEOL 6000	X			X		Advanced Environmental Geochemistry and Geosciences
GEOL 690							X		Graduate Seminar	Fryxell	GEOL 6900		X			?	Graduate Seminar
PDC	F18	W1	S19	Su19	F18	W1	S19	Su19			F20	S21	Su21	F21	S22	Su22	
GEOL 101			X				X		Intro to Geology		GEOL 1000+L					X	
GEOL 205			X				X		Volcanic Hazards			N/A	N/A		N/A	N/A	
GEOL 309	X				X				Blue Planet		GEOL 3090		X				

* Summer 2018-GEOL 391 Dino Dig

5/2/2018

electives will be taught on a two-year rotation, TBA

PHYS 2000 = PHYS 2500

MATH 1601 = MATH 2210

GEOL 1000 = GEOL 1020 = GEOL 1060

GEOL 1000L = GEOL 1060L

MATH 2210 ->PHYS 2000 -> GEOL 3600

CHEM 2100 -> GEOL 3200 -> GEOL 3240

GEOL 3200 -> GEOL 3220

GEOL 3990 -> GEOL 4000 -> GEOL 4900

GEOL 3100 -> GEOL 3902 = GEOL 3903 = GEOL 3904 = GEOL 3906 = GEOL 5280

PHYS 2000 = PHYS 2500

MATH 1601 = MATH 2210

GEOL 1000 = GEOL 1020 = GEOL 1060

GEOL 1000L = GEOL 1060L

MATH 2210 ->PHYS 2000 -> GEOL 3600

CHEM 2100 -> GEOL 3200 -> GEOL 3240

GEOL 3200 -> GEOL 3220

GEOL 3990 -> GEOL 4000 -> GEOL 4900

GEOL 3100 -> GEOL 3902 = GEOL 3903 = GEOL 3904 = GEOL 3906 = GEOL 5280

Degree	BA Geology: General Concentration 4 yr						
	Fall	Sem	Units	Spring	Sem	Units	
Year 1	Foundation Seminar (E)	FS	3	Oral Comm (A1)	FS	3	
	Written Comm (A2)	FS	3	Critical Think (A3)	FS	3	
	Geol 1000, 1020 or 1060 (B1)	FS	3	Geol 2000	S	4	
	Geol 1000L or 1060L (B3)	FS	1	CHEM 2050 or 2100	FS	3	
	Math 1401 or 1601 or 2210 (B4)	FS	3	CHEM 2050L or 2100L	FS	1	
	Semester Units:		13	Semester Units:		14	27
Year 2	Amer Gov. (D-AG)	FS	3	Arts (C1)	FS	3	
	US History (D-USH)	FS	3	Life Science (B2)	FS	3	
	GEOL 2500	FS	3	GEOL 3220	S	4	
	GEOL 3100	F	3	GEOL 3240	S	4	
	GEOL 3200	F	5	Lit, Phil or Lang (C2)	FS	3	
	Semester Units:		17	Semester Units:		17	34
Year 3	Upper Div Science Inq (B-UD)	FS	3	Lit, Phil or Lang (C2)	FS	3	
	PHYS 1000 or 2000 or 2500	F	3	SSCI Discipline Pers (D-DP)	FS	3	
	PHYS 1000L or 2000L or 2500L	F	1	GEOL 3600	S	4	
	GEOL 3300	F	4	GEOL 3990	S	3	
	GEOL 3700	F	3	GEOL 4100	S	4	
	Semester Units:		14	Semester Units:		17	31
Year 4	Upper-Div Social Sci (D-UD)	FS	3	Humanities Upper Division (C-UD)	FS	3	
	GEOL 3902 - 5280	FS	3	GEOL 4900	S	2	
	GEOL 4000	F	2	GEOL 3902 - 5280	FS	3	
	GEOL elect	FS	3	Free Elective	FS	3	
	GEOL Elect	FS	3	Free Elective	FS	3	
	Semester Units:		14	Semester Units:		14	28
Summer							
							120

See program bulliten for limited set of courses from which to choose the Geology electives

PHYS 2000 = PHYS 2500

MATH 1601 = MATH 2210

GEOL 1000 = GEOL 1020 = GEOL 1060

GEOL 1000L = GEOL 1060L

MATH 2210 ->PHYS 2000 -> GEOL 3600

CHEM 2100 -> GEOL 3200 -> GEOL 3240

GEOL 3200 -> GEOL 3220

GEOL 3990 -> GEOL 4000 -> GEOL 4900

GEOL 3100 -> GEOL 3902 = GEOL 3903 = GEOL 3904 = GEOL 3906 = GEOL 5280

See program bulliten for limited set of courses from which to choose the Geology electives

PHYS 2000 = PHYS 2500
MATH 1601 = MATH 2210
GEOL 1000 = GEOL 1020 = GEOL 1060
GEOL 1000L = GEOL 1060L
MATH 2210 ->PHYS 2000 -> GEOL 3600
CHEM 2100 -> GEOL 3200 -> GEOL 3240
GEOL 3200 -> GEOL 3220
GEOL 3990 -> GEOL 4000 -> GEOL 4900
GEOL 3100 -> GEOL 3902 = GEOL 3903 = GEOL 3904 = GEOL 3906 = GEOL 5280

Bachelor of Arts in Geology Core Courses	
Requirements (72-74 units)	
Total units required for graduation: 120	
Lower-division requirements (22-24)	
Choose one of the following courses, with laboratory	
CHEM 2050	Survey of General Chemistry
CHEM 2050L	Survey of General Chemistry Laboratory
CHEM 2100	General Chemistry I
CHEM 2100L	General Chemistry I Laboratory
Choose one from the following (fulfills GE category B4)	
MATH 1401	Preparation for Calculus
MATH 1601	Modeling with Calculus (If MATH 1401 or equivalent is not
MATH 2210	Calculus I
Choose one of the following courses, with laboratory	
PHYS 1000	Physics in the Modern World
PHYS 1000L	Physics in the Modern World Lab
PHYS 2000	Introduction to Physics I
PHYS 2000L	Introduction to Physics I Lab
PHYS 2500	General Physics I
PHYS 2500L	General Physics I Lab
Choose one of the following courses:	
GEOL 1000	Introductory Geology
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes
GEOL 1060	Environmental Geology and Geological Hazards
Choose one of the following laboratories:	
GEOL 1000L	Introductory Geology Laboratory
GEOL 1060L	Environmental Geology and Geological Hazards Laboratory
Lower-division requirements Core	
GEOL 2000	Interpreting Earth Systems History: Stories from an Ancient
GEOL 2500	Geology of California
Upper-division requirements (34)	
GEOL 3100	Introduction to Geologic Mapping
GEOL 3200	Mineralogy
GEOL 3220	Introduction to Geochemistry
GEOL 3240	Igneous and Metamorphic Petrology
GEOL 3300	Sedimentary Geology: Principles and Applications
GEOL 3600	Structural Geology
GEOL 3700	Groundwater Hydrology
GEOL 3990	Geological Research Design
GEOL 4000	Undergraduate Geological Research
GEOL 4900	Senior Seminar

Bachelor of Arts in Geology Concentration Courses	
Field and Applied Geology Concentration (16 units)	
GEOF Requirements (16)	
GEOL 4100	Engineering Geology (4)
Six units chosen from:	
GEOL 3902	Advanced Field Geology (2)
GEOL 3903	Advanced Field Geology (3)
GEOL 3904	Advanced Field Geology (4)
GEOL 3906	Advanced Field Geology (6)
GEOL 5280	Digital Mapping and GIS for Scientists (3)
A minimum of 6 units chosen from:	
GEOG 4400	Geomorphology (3)
GEOG 5600	Earth Resources (4)
GEOG 2250	Introduction to Geographic Information Systems and
GEOL 3750	Field Methods in Hydrology (3)
GEOL 4200	Topics in Applied Geology (3)
GEOL 4200L	Laboratory for Topics in Applied Geology (1)
GEOL 5220	Neotectonics and Seismic Hazard Analysis (4)
GEOL 5400	Environmental Hydrology (3)
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering

General Geology Concentration (16 units)	
GEOA Requirements (16)	
A minimum of 16 units chosen from the following (no more than 3 units from supervision courses):	
3100-level or above GEOL courses not previously used for the degree	
2000-level and higher courses in MATH, BIOL, CHEM, or PHYS not previously used for the degree, up to 6 units	
GEOG 2250	Introduction to Geographic Information Systems and
Geol 3710	Adv Geographic Information Systems
MATH	Applied Statistics
GEOG 4250	Watershed Hydrology and Management
GEOG 4400	Geomorphology
HSCI #557	Hazardous Waste Management

Bachelor of Science in Geology Core Courses	
Requirements (72-74 units)	
Total units required for graduation: 120	
Lower-division requirements (25-26)	
CHEM 2100	General Chemistry I
CHEM 2100L	General Chemistry I Laboratory
CHEM 2200	General Chemistry II
CHEM 2200L	General Chemistry II Laboratory
Choose one of the following (fulfills GE category B4):	
MATH 1601	Modeling with Calculus (If MATH 1401 or equivalent is not taken in preparation for
MATH 2210	Calculus I
Choose one of the following:	
PHYS 2000	Introduction to Physics I
PHYS 2500	General Physics I
Choose one of the following:	
PHYS 2000L	Introduction to Physics I Lab
PHYS 2500L	General Physics I Lab
Choose one of the following (fulfills GE category B1):	
GEOL 1000	Introductory Geology
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami
GEOL 1060	Environmental Geology and Geological Hazards
Choose one of the following (Laboratory Activity associated with GE B1):	
GEOL 1000L	Introductory Geology Laboratory
GEOL 1060L	Environmental Geology and Geological Hazards Laboratory
Lower-division Core requirement	
GEOL 2000	Interpreting Earth Systems History: Stories from an Ancient Planet
Upper-division requirements (37)	
GEOL 3100	Introduction to Geologic Mapping
GEOL 3200	Mineralogy
GEOL 3220	Introduction to Geochemistry
GEOL 3240	Igneous and Metamorphic Petrology
GEOL 3300	Sedimentary Geology: Principles and Applications
GEOL 3600	Structural Geology
Choose six units from the following:	
GEOL 3902	Advanced Field Geology
GEOL 3903	Advanced Field Geology
GEOL 3904	Advanced Field Geology
GEOL 3906	Advanced Field Geology
GEOL 5280	Digital Mapping and GIS for Scientists
GEOL 3990	Geological Research Design
GEOL 4000	Undergraduate Geological Research
GEOL 4900	Senior Seminar

Bachelor of Science in Geology Concentration Courses	
General Geology Concentration GEOL (9-15 units)	
A minimum of 9 units chosen from the following list after consultation with a faculty advisor. No more than 3 units may be taken from supervision courses.	
Any 3100-level or above Geology course, not previously used for the degree	
GEOL 2500	Geology of California
GEOG 2250	Introduction to Geographic Information Systems and Cartography
GEOG 3730	Geo-Spatial Analysis
GEOG 4400	Geomorphology
GEOG 4870	Environmental GIS
Up to 6 units of 2000-level or above Math, Biology, Chemistry or Physics courses, not previously used for the degree.	
No more than 3 units of elective may be from supervision courses.	
At least 3 units of elective must be from Geology courses.	

Environmental Geology Concentration ENVG (13-15 units)	
GEOL 3700	Groundwater Hydrology
GEOL 4100	Engineering Geology
Choose a minimum of two courses, one from Group A, and one from either Group A:	
GEOL 2500	Geology of California
GEOG 4400	Geomorphology
GEOL 5600	Earth Resources
Group B:	
GEOG 2250	Introduction to Geographic Information Systems and Cartography
GEOL 3750	Field Methods in Hydrology
GEOL 5220	Neotectonics and Seismic Hazard Analysis
GEOL 5400	Environmental Hydrology
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering Geology

Quarter Geological Sciences Concentration		
18 units from the following list of courses		
GEOL 101	Introductory Geology	5
GEOL 205	Volcanic Hazards	2
GEOL 210	Earthquake: Science & Public Policy	2
GEOL 250	Historical Geology	5
GEOL 309	Earth: The Blue Planet	5
GEOL 310	Regional Field Geology	2
GEOL 312	Geology of California	4

Semester Geological Sciences Concentration		
Proposal A: 15 units from the following list of courses		
GEOL 1000 or 1020 or 1060	LDGE Geology	3
GEOL 1000L or 1060L	LDGE Geology Lab	1
GEOL 2000	Interpreting Earth Systems History: Stories from the Past	4
GEOL 2500	Geology of California	3
	Core	11
GEOL 2101	Special Projects	1
GEOL 3020	Natural Disasters	3
GEOL 3030	History Legacy of Life on Earth	3
GEOL 3040	Energy and the Environment	3

Proposal B: 15 units from the following list of courses		
GEOL 1000	Introductory Geology	3
GEOL 1020	Plate Tectonics	3
GEOL 1060	Env Geology and Geol Hazards	3
GEOL 1000L or 1060L	LDGE Geology Lab	1
GEOL 2000	Interpreting Earth Systems History: Stories from the Past	4
GEOL 2500	Geology of California	3
	Core	17
GEOL 3020	Natural Disasters	3
GEOL 3030	History Legacy of Life on Earth	3
GEOL 3040	Energy and the Environment	3

1000	Introductory Geolog	0
1000L	Introductory Geology Lab	0
1020	Plate Tectonics	0
1060	Environmental Geology and Geological Hazards	0
1060L	Environmental Geology and Geological Hazards	0
2000	Interpreting Earth Systems History: Stories from the Past	0
2040	Water in the West	0
2101	Special Projects in Geology	0
2102	Special Projects in Geology	0
2500	Geology of California	0
3020	Natural Disasters	0
3030	History Legacy of Life on Earth	0
3040	Energy and the Environment	0
3100	Introduction to Geologic Mapping	0
3200	Mineralogy	0
3220	Introduction to Geochemistry	0
3240	Igneous and Metamorphic Petrology	0
3300	Sedimentary Geology: Principles and Application	0
3400	Sedimentary Geology: Environmental Systems and Hazards	0
3500	Introductory Paleontology	0
3600	Structural Geology	0
3700	Groundwater Hydrology	0
3750	Field Methods in Hydrology	0

Geology Courses	Total	Lec	Lab	WTU
1000 Introductory Geology Lab	3	3	3	
1000L Introductory Geology Lab	1	0	1	2
1020 Plate Tectonics	3	3	3	
1060 Environmental Geology and Geological Hazards	3	3	3	
1060L Environmental Geology and Geological Hazards Laboratory	1	0	1	2
2000 Interpreting Earth Systems History: Stories from an Ancient Planet	4	3	1	2
2040 Water in the West	3	3	3	
2101 Special Projects in Geology	1	1	1	
2102 Special Projects in Geology	2	2	2	
2500 Geology of California	3	3	3	
3020 Natural Disasters	3	3	3	
3030 History Legacy of Life on Earth	3	3	3	
3040 Energy and the Environment	3	3	3	
3100 Introduction to Geologic Mapping	3	2	1	4
3200 Mineralogy	5	3	2	7
3220 Introduction to Geochemistry	4	3	1	5
3240 Igneous and Metamorphic Petrology	4	3	1	5
3300 Sedimentary Geology: Principles and Applications	4	3	1	5
3400 Sedimentary Geology: Environmental Systems Analysis	4	3	1	5
3500 Introductory Paleontology	4	3	1	5
3600 Structural Geology	4	3	1	5
3700 Groundwater Hydrology	3	3	0	3
3750 Field Methods in Hydrology	3	1	2	5
3800 Directed Readings in Geology	2	2	2	
3902 Advanced Field Geology	2	0	2	3.0
3903 Advanced Field Geology	3	0	3	4.5
3904 Advanced Field Geology	4	0	4	6.0
3906 Advanced Field Geology	6	0	6	9.0
3951 Directed Studies	1	1	1	0.33
3952 Directed Studies	2	2	2	0.33
3953 Directed Studies	3	3	3	0.33
3990 Geological Research Design	2	2	2	
4000 Undergraduate Geological Research	2	2	2	0.50
4100 Engineering Geology	4	2	2	6
4200 Topics in Applied Geology	3	3	3	
4200L Laboratory for Topics in Applied Geology	2	2	4	
4800 Senior Honors Research	2	2	2	
4900 Senior Seminar	2	2	2	33/50
5000 Advanced Topics in Geology	3	3	3	
5000L Laboratory for Advanced Topics in Geology	1	1	1	
5200 Tectonics	3	3	0	3
5220 Neotectonics and Seismic Hazard Analysis	4	3	1	5
5240 Volcanology and Volcanic Hazard Assessment	4	3	1	5
5260 Advanced Structural Geology	4	3	1	5
5280 Digital Mapping and GIS for Scientists	3	1	2	5
5300 Microscopy	3	2	1	4
5400 Environmental Hydrology	3	3	3	
5420 Geochemical Thermodynamics	3	3	3	
5440 Environmental Geochemistry	4	3	1	5
5460 Low-temperature Geochemistry	3	3	3	
5600 Earth Resources	4	3	1	5
5620 Site Investigation, Siting, and Case Histories in Engineering Geology	4	3	1	5
5751 Internship in Geology	1	1	1	
5752 Internship in Geology	2	2	2	
5753 Internship in Geology	3	3	3	
5951 Independent Study	1	1	1	
5952 Independent Study	2	2	2	
5953 Independent Study	3	3	3	
6000 Advanced Environmental Chemistry and Geosciences	4	3	1	5 0.33
6100 Graduate Geological Mapping	3	3	6	0.50
6752 Advanced Internship	2	2	2	
6940 Graduate Research Methods and Design	3	3	3	0.50
6950 Directed Graduate Research in Geology	0	0	0	
6970 Graduate Thesis	3	3	3	
6900 Graduate Seminar	2	2	2	

		F 20	S 21	Su 21	F 21	S 22	Su 22
1000 Introductory Geology	1000	X2	M56	X	X	X	
1000L Introductory Geology Lab	1000L	X	X	X	X	X	
1020 Plate Tectonics	1020			X			
1060 Environmental Geology and Geological Hazards	1060			X	X	X	
1060L Environmental Geology and Geological Hazards Laboratory	1060L			X	X	X	
2000 Interpreting Earth Systems History: Stories from an Ancient Planet	2000	X					X
2040 Water in the West	2040					X	
2101-2 Special Projects in Geology	2101-2						X
2500 Geology of California	2500	X				X	
3020 Natural Disasters	3020	X				X	X
3030 History Legacy of Life on Earth	3030	X	X				
3040 Energy and the Environment	3040					X	
3100 Introduction to Geologic Mapping	3100	X				X	
3200 Mineralogy	3200	X				X	
3220 Introduction to Geochemistry	3220						
3240 Igneous and Metamorphic Petrology	3240						
3300 Sedimentary Geology: Principles and Applications	3300						
3400 Sedimentary Geology: Environmental Systems Analysis	3400						
3500 Introductory Paleontology	3500						
3600 Structural Geology	3600						
3700 Groundwater Hydrology	3700						
3750 Field Methods in Hydrology	3750						
3800 Directed Readings in Geology	3800						
3902-6 Advanced Field Geology	3902-6						
3951-3 Directed Studies	3951-3						
3990 Geological Research Design	3990						
4000 Undergraduate Geological Research	4000						
4100 Engineering Geology	4100						
4200 Topics in Applied Geology	4200						
4200L Laboratory for Topics in Applied Geology	4200L						
4800 Senior Honors Research	4800						
4900 Senior Seminar	4900						
5000 Advanced Topics in Geology	5000						
5000L Laboratory for Advanced Topics in Geology	5000L						
5200 Tectonics	5200						
5220 Neotectonics and Seismic Hazard Analysis	5220						
5240 Volcanology and Volcanic Hazard Assessment	5240						
5260 Advanced Structural Geology	5260						
5280 Digital Mapping and GIS for Scientists	5280						
5300 Microscopy	5300						
5400 Environmental Hydrology	5400						
5420 Geochemical Thermodynamics	5420						
5440 Environmental Geochemistry	5440						
5460 Low-temperature Geochemistry	5460						
5600 Earth Resources	5600						
5620 Site Investigation, Siting, and Case Histories in Engineering Geology	5620						
5751-3 Internship in Geology	5751-3						
5951-3 Independent Study	5951-3						
6000 Advanced Environmental Chemistry and Geosciences	6000						
6100 Graduate Geological Mapping	6100						
6752 Advanced Internship	6752						
6940 Graduate Research Methods and Design	6940						
6950 Directed Graduate Research in Geology	6950						
6970 Graduate Thesis	6970						
6900 Graduate Seminar	6900						

B.S. In Geology – Quarter to Semester Translation Table
Quarter Requirements (AY 2017-18)

		Quarter Courses	Semester Course Equivalencies (Course is the same as the quarter course. This can be 1:1; 1:many; many:1; or many:many courses. Anywhere (for any program) which the quarter course was required or listed, this (these) semester course(s) can be used. This information will also be displayed in the course conversion guide. Repeat rules apply.)	Acceptable Semester Course Substitutions (Course is NOT the same as the semester course, but it is acceptable for this particular program requirement area for all students. This information WILL NOT be displayed in the course conversion guide, but will be reflected on the PAWS as a choice for the student. Repeat rules DO NOT apply.)	Acceptable Semester Course Repeats (If there is no semester course equivalency, this is the alternative course to allow for grade forgiveness/grade discounting.)	Quarter Units (Current number of units which are required for each requirement area.)	Semester Units (Number of semester units which will be required for each requirement area.)	Notes		
Lower Division Requirements	one course chosen from:	BIOL 100 or BIOL 200	BIOL 1000 + BIOL 1000L BIOL 2010			5	4			
	Required Courses	CHEM 215	CHEM 2100 + CHEM 2100L			6	5			
		CHEM 216	CHEM 2200 + CHEM 2200L			6	5			
		GEOL 101	GEOL 1000 + GEOL 1000L			5	4			
		GEOL 250	GEOL 2000			5	4			
		MATH 211 MATH 212	MATH 2210 covers essential concepts in both MATH 211 and MATH 212	MATH 2210		4 4	4 4			
A minimum of 9 units chosen from Group A (students are strongly encouraged to complete the sequence)	Group A:	PHYS 121	PHYS 2000 + PHYS 2000L			9	4			
		PHYS 122	PHYS 2010 + PHYS 2010L							
		PHYS 123	NA	PHYS 2000 + PHYS 2000L						
	Group B:	PHYS 221	PHYS 2500 + PHYS 2500L							
		PHYS 222	PHYS 2510 + PHYS 2510L							
		PHYS 223	NA	PHYS 2500 + PHYS 2500L						
Upper Division Requirements	Required Courses	GEOL 301	GEOL 3100			4	3			
		GEOL 320	GEOL 3200 incorporates 320 and 321			5	5			
		GEOL 321				3				
		GEOL 322	GEOL 3220			4	4			
		GEOL 325	GEOL 3240			5	4			
		GEOL 330	GEOL 3300 and 3400 remix 330 and 340				4			
		GEOL 340				5				
		GEOL 360	GEOL 3600			5	4			
		GEOL 390 or GEOL 391B-F	GEOL 3902-3906			8	6			
		GEOL 398	GEOL 3990			1	3			
		GEOL 399	GEOL 4000			3	2			
		GEOL 590	GEOL 4900			2	2			
Major Electives	A minimum of 18 units chosen from the following list after consultation with a faculty advisor. No more than four units may be taken from supervision courses.	General Geology Option (18 units) (Program Code: GEOL)				18	12			
		GEOG 202	GEOG 2250							
		GEOG 308	GEOG 3710							
		GEOG 480	GEOG 4400							
		GEOL 307A-B	TBA with Track 3							
		GEOL 310	deleted							
		GEOL 312	GEOL 2500							
		GEOL 350	GEOL 3500							
		GEOL 370	GEOL 5200							
		GEOL 375	GEOL 3700							
		GEOL 391B-E	GEOL 3902-3906							
		GEOL 395A-D	GEOL 3951-3953							
		GEOL 540	GEOL 5000							
		GEOL 545A-B	GEOL 5000L							
		GEOL 550	GEOL 5600							
		GEOL 551	GEOL 5220							
		GEOL 552	GEOL 5240							
		GEOL 553	GEOL 5260							
		GEOL 554	GEOL 5420							
		GEOL 555	GEOL 5620 incorporates GEOL 555 and 556							
		GEOL 556								
		GEOL 575B-D	GEOL 5751, 5752, 5753							
		GEOL 591	GEOL 5280							
		GEOL 595A-E	GEOL 5951, 5952, 5953							
		GEOL 597B-D	GEOL 4800							
		MATH 262	TBA with Track 3							
				Environmental Geology Option (18 units) (Program Code: ENVG)				18	12	
		Required Courses	GEOL 375	GEOL 3700						
			GEOL 376	GEOL 3750						
			GEOL 430	GEOL 4100						
		A minimum of five units chosen, after consultation with a faculty advisor, from (no more than two units from supervision courses):	CHEM 206	CHEM 2060						
			GEOG 202	GEOG 2250						
GEOG 470	GEOG 4250									
GEOL 480	GEOL 4400									
GEOL 312	GEOL 2500									
GEOL 540	GEOL 5000									
GEOL 545A-B	GEOL 5000L									
GEOL 550	GEOL 5600									
GEOL 551	GEOL 5220									
GEOL 552	GEOL 5240									
GEOL 553	GEOL 5260									
GEOL 554	GEOL 5420									
GEOL 555	GEOL 5620 incorporates GEOL 555 and 556									
GEOL 556										
GEOL 575B-D	GEOL 5751-5753									
GEOL 591	GEOL 5280									
GEOL 595A-E	GEOL 5951-5953									
GEOL 597B-D	GEOL 4800									
HSCI 557	TBA									
MATH 262	TBA with Track 3									