

Geology, B.S.: 120 units
2019-2020 Academic Year: 4 Year Road Map

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	GSC 1110 Principles of Geology (B1) (Success Marker)		3	GSC 1120 Earth, Time, and Life (B1) (Success Marker)		3	
	GSC 1410L Principles of Geology Laboratory (B3)		1	GSC 1510L Earth, Time, and Life Laboratory (B3)		1	
	CHM 1210 General Chemistry I (B1) (Success Marker)	Prereq: C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250, STA 120, or STA 1200; or C- or better Coreq: CHM 1210L.	3	GSC 2550L Field Methods Laboratory	Prereq: GSC 111 or GSC 1110; and GSC 141L or GSC 1410L.	1	
	CHM 1210L General Chemistry Laboratory I (B3) (Success Marker)	Prereq: C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250, STA 120, or STA 1200; or C- or better Coreq: CHM 1210.	1	CHM 1220 General Chemistry II (B1)	Prereq: C- or better in CHM 1210, CHM 122 or CHM 122B; and C- or better in CHM 1210L, CHM 122L or CHM122LB. Coreq: CHM 1220L.	3	
	BIO 1110 Life Science (B2)	Prereq: Undergraduate standing. Coreq: BIO 1110L.	2	CHM 1220L General Chemistry Laboratory II (B3)	Prereq: C- or better in CHM 1210, CHM 122 or CHM 122B; and C- or better in CHM 1210L, CHM 122L or CHM122LB. Coreq: CHM 1220.	1	
	BIO 1110L Life Science Laboratory (B3)		1	MAT 1140 Calculus I (B4) (Success Marker)	Prereq: C or better in MAT 1050 and MAT 1060, or appropriate score on MDTP or ALEKS placement test.	4	
	GE Area A2: Written Communication (Success Marker)		3	GE Area A1: Oral Communication		3	
			0			0	
	Total Units	14		Total Units	16		

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Year 2	GSC 2150 Mineralogy	Prereq: GSC 111 or GSC 1110; GSC 141L or GSC 1410L; CHM 121 or CHM 1210; and CHM 121L or CHM 1210L. Coreq: GSC 2150L.	2	GSC 3070 Introduction to Global Geophysics	Prereq: MAT 1050, MAT 112, MAT 114, MAT 1140, MAT 115, MAT 1150, or MAT 116; MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 115, MAT 1150, or MAT 116. Coreq: GSC 3070L.	2	
	GSC 2150L Mineralogy Laboratory	Prereq: GSC 111 or GSC 1110; GSC 141L or GSC 1410L; CHM 121 or CHM 1210; and CHM 121L or CHM 1210L. Coreq: GSC 2150.	1	GSC 3070L Introduction to Global Geophysics Laboratory	Prereq: MAT 1050, MAT 112, MAT 114, MAT 1140, MAT 115, MAT 1150, or MAT 116; MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 115, MAT 1150, or MAT 116. Coreq: GSC 3070.	1	
	GSC 3230 Geomorphology	Prereq: GSC 111 or GSC 1110; and GSC 141L or GSC 1410L. Coreq: GSC 3230L.	2	GSC 3600 Hydrogeology	Prereq: MAT 1050, MAT 112, MAT 114, MAT 1140, MAT 115, MAT 1150, or MAT 116; MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 115, MAT 1150, or MAT 116; GSC 111 or GSC 1110; GSC 141L or GSC 1410L; and GSC 321L, or GSC 3210 and GSC 3210L. Coreq: GSC 3600L.	2	
	GSC 3230L Geomorphology Laboratory	Prereq: GSC 111 or GSC 1110; and GSC 141L or GSC 1410L. Coreq: GSC 3230.	1	GSC 3600L Hydrogeology Laboratory	Prereq: MAT 1050, MAT 112, MAT 114, MAT 1140, MAT 115, MAT 1150, or MAT 116; MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 115, MAT 1150, or MAT 116; and GSC 111, GSC 1110, GSC 141L or GSC 1410L, GSC 321/321L or GSC 3210/GSC 3210L. Coreq: GSC 3600.	1	
	GSC 1450L Megascopic Petrography Laboratory	Prereq: GSC 111 or GSC 1110 and GSC 141L or GSC 1410L.	1	Major Required	PHY 1220/L Electromagnetism, Circuits, and Light /Laboratory or PHY 1510/L Newtonian Mechanics /Laboratory	4	
	MAT 1150 Calculus II (B4)	Prereq: MAT 1140, MAT 115B, MAT 1140C, AP Calc AB ≥ 3 , or AP Calc BC ≥ 3 .	4	GE Area A3: Critical Thinking		3	
	GE Area E: Lifelong Learning and Self-Development		3	GE Area C1: Visual and Performing Arts		3	
			0			0	
Semester Total Units			14	Semester Total Units		16	

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Year 3	GSC 3000 Geochemistry	Prereq: CHM121 or CHM 1210; and CHM121L or CHM 1210L. Coreq: GSC 3000L.	2	GSC 3330 Structural Geology	Prereq: MAT 1050, MAT112, MAT114, MAT 1140, MAT115, MAT 1150, or MAT116; MAT 1060, MAT112, MAT114, MAT 1140, MAT115, MAT 1150, or MAT116; GSC111 or GSC 1110; GSC141L or GSC 1410L; and GSC255L, GSC 2550L, GSC491L or GSC 4910L. Coreq: GSC 3330L.	2	<i>Graduation Writing Test must be taken before completion of 75 units.</i>
	GSC 3000L Geochemistry Laboratory	Prereq: CHM 121 or CHM 1210; and CHM 121L or CHM 1210L. Coreq: GSC 3000.	1	GSC 3330L Structural Geology Laboratory	Prereq: MAT 1050, MAT112, MAT114, MAT 1140, MAT115, MAT 1150, or MAT116; MAT 1060, MAT112, MAT114, MAT 1140, MAT115, MAT 1150, or MAT116; and GSC111, GSC 1110, GSC141L or GSC 1410L; and GSC255L, GSC 2550L, GSC491L or GSC 4910L. Coreq: GSC 3330.	1	
	GSC 4230 Sedimentary Geology	Prereq: GSC 111 or GSC 1110; GSC 141L or GSC 1410L; and GSC 325L, GSC 215L or GSC 2150L. Coreq: GSC 4230L.	2	Major Required	GE Area B5: GSC 3040 or GSC 3200 or GSC 3210/L or GSC 3350 or GSC 3500	3	
	GSC 4230L Sedimentary Geology Laboratory	Prereq: GSC 111 or GSC 1110; GSC 141L or GSC 1410L; and GSC 325L, GSC 215L or GSC 2150L. Coreq: GSC 4230.	1	Emphasis Elective	Select from Curriculum Sheet	3	
	GSC 4910L Field Module Laboratory	Prereq: GSC 255 or GSC 2550L.	1	Emphasis Elective	Select from Curriculum Sheet	3	
	Major Required	PHY 1220/L Electromagnetism, Circuits, and Light/ Laboratory or PHY 1520/L Introduction to Electromagnetism and Circuits/ Laboratory	4	GE Area C1 or GE Area C2	Select either C1: Visual and Performing Arts or C2: Literature, Modern Languages, Philosophy and Civilization course	3	
	GE Area D2: U.S. Constitution and California Government		3			0	
			0			0	
	<i>Take the Graduation Writing Test</i>						
	Semester Total Units			14	Semester Total Units		

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	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 4	Emphasis Elective	Select from Curriculum Sheet	3	Emphasis Elective	Select from Curriculum Sheet	3	
	Emphasis Elective	Select from Curriculum Sheet	3	Emphasis Elective	Select from Curriculum Sheet	3	
	Major Electives	GSC 4100 or GSC 4610 or GSC 4620 or GSC 3XXX/4XXX	2	Major Electives	GSC 4100 or GSC 4610 or GSC 4620 or GSC 3XXX/4XXX	2	
	GE Area D3: Social Sciences: Principles, Methodologies, Value Systems, and Ethics		3	GE Area D4: Social Science Synthesis		3	
	GE Area C2: Literature, Modern Languages, Philosophy and Civilization		3	GE Area C3: Arts and Humanities Synthesis		3	
	GE Area D1: U.S. History American Ideals		3			0	
			0			0	
			0			0	
	<i>File an application to graduate</i>						
	Semester Total Units		17	Semester Total Units		14	
Total Units					120		