Degree: Geology, B.S. 23-24				
Requirement Area	**Course**	**Course Title**	**Prerequisites**	**Units**
First Semester (FALL)				
E	GS 101A	Foundations of Success I		1
A1				3
B1/B3/LD Major	PHYS 125	General Physics I	Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.	4
LD Major	GEOL 210	Physical and Environmental Geology		4
B4/LD Major	MATH 130	Calculus I	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH 125 (either course with grade C- or better).	4
			Total:	16
Second Semester (SPRING)				
E	GS 101B	Foundations of Success II		1
A2	ENGL 102			3
C2				3
LD Major	GEOL 211	Historical Geology		4
LD Major	PHYS 126*	General Physics II	PHYS 125.	4
			Total:	15
Third Semester (FALL)				
E				1
A3	PHIL 100	Workshop in Critical Thinking		3
B2				3
C1				3
LD Major	CHEM 111	General Chemistry I		3
LD Major	CHEM 111L	General Chemistry Lab I		2
			Total:	15
Fourth Semester (SPRING)				
Add'l C1 or C2				3
Writing II				3
Code 1/D1				3
LD Major	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	5
LD Major	GEOL 297	Introductory Field Experience		1
			Total:	15
Fifth Semester (FALL)				
D2				3
UD Major	GEOL 360	Mineralogy and Optical Crystallography	CHEM 112 and GEOL 210.	4
LD Major	GEOL 260	Introduction to GIS		3
F		Ethnic Studies		3
			Total:	13
Sixth Semester (SPRING)				
UWR/UD-C/Overlay				3
UD Major	GEOL 361	Igneous & Metamorphic Petrology	GEOL 360.	4
UD Major	STAT/MATH/GEOL/CS/PHYS	UD Quantitative skills elective		3
UD Major	GEOL 371	Sedimentary Geology and Stratigraphy	GEOL 361.	4
elective				1
			Total:	15
Seventh Semester (FALL)				
UD-D/Overlay				3
UD Major	GEOL 381	Structural Geology	GEOL 360.	5
UD-B/Overlay				3
UD Major	GEOL 397A, B, C	Upper division field course 1		2
UD Major	GEOL*	Disciplinary breadth/depth elective		3
			Total:	16
Eighth Semester (SPRING)				
Code 2				3
UD Major	GEOL	Disciplinary breadth/depth elective		3
UD Major	GEOL	Disciplinary breadth/depth elective		4
UD Major	GEOL 397A,B,C,D,E,F	Upper division field course 2	GEOL 297, junior or senior standing.	2
UD Major	GEOL 499	Seminar in Geology	Junior or senior standing.	3
			Total:	15
Total Units:				120

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

Revised: 03/24/23

CSUEB General Breadth and Graduation Requirement Checklist
Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better)
☐ A1. COMM 100 or 104, MLL 111
☐ A2. ENGL 101, 102, or 104
☐ A3. PHIL 100
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning
☐ B1. Physical Science
☐ B2. Life Science
☐ B3. Laboratory Activity
☐ B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)
Area C (9 units): Arts & Humanities - Minimum of two different disciplines as designated by course prefix (e.g., ART, THEA, MUS)
☐ C1. Arts
☐ C2. Humanities
☐ *Additional Lower-division Area C Course in Arts (C1) or Humanities (C2)
Area D (6 units) : Social Sciences - Minimum of two different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)
☐ D1.
☐ D2.
Area E (3 units) : Lifelong Learning and Self-Development
☐ E.
Area F (3 units): Ethnic Studies
☐ F.
Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.
☐ Second Composition
University Writing Requirement
☐ UWR
U.S. Code (American Institutions Requirement) - Two courses (6 units) covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).
☐ Code 1.
☐ Code 2.
Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)
☐ UD-B. Upper-division Science Inquiry and Quantitative Reasoning
☐ UD-C.Upper-division Arts OR Humanities
☐ UD-D. Upper-division Social Sciences
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major
☐ Diversity (Div)
☐ Social Justice (SJ)
☐ Sustainability (S)

Elective Courses
A minimum of 12 units of elective courses are required as outlined below:
One (1) of the following Quantitative courses is required for 3 units:
CS 400 - Computer Programming for Science Units: 3
CMGT 310 - Statics and Strength of Materials Units: 3
MATH 131 - Calculus II Units: 3
PHYS 330 - Analytic Mechanics Units: 3
STAT 315 - Exploring and Analyzing Data Units: 3
STAT 316 - Statistics and Probability for Science and Engineering Units: 3
STAT 320 - Introduction to Probability Theory I Units: 3
Plus choose a minimum of 9 units of electives from the following * :
ENSC 350 - Environmental Hydrology Units: 4 ; G.E./G.R. Area: Sustainability
GEOL 311 - Geomorphology Units: 3
GEOL 398 - Internship Units: 1-3
ENSC 410 - Geohealth Units: 3
GEOL 431 - Applied Geophysics Units: 4
GEOL 432 - Hydrogeology Units: 4
GEOL 441 - Earthquake Geology Units: 3
GEOL 460 - Geographic Information Systems for Earth and Environmental Sciences Units: 4
GEOL 490 - Independent Study Units: 1-3
GEOL 497 - Issues in Geosciences Units: 3
*Only one (1) course from the following may apply to the above elective units:
GEOL 341 - General Oceanography Units: 4
GEOL 342 - Planetary Geology Units: 3
GEOL 343 - Atmospheric Science Units: 3