

Degree: Geology, B.A. 25-26				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester (FALL)				
Recommended	EESC 133	Introduction to the Earth, Environmental and Sustainability Sciences for Majors		1
Major	EESC 297	Introductory Field Experience		1
1C	COMM 100	Communication		3
5A/5C	PHYS 125	General Physics I	Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.	4
LD Major	EESC 210	Physical and Environmental Geology and Geography		4
Area 2	MATH 120	Precalculus		3
		Total:		16
Second Semester (SPRING)				
1A	ENGL 102	Accelerated College Writing		3
3B				3
LD Major	EESC 211	Historical Geology and Geography		4
LD Major	PHYS 126	General Physics II	PHYS 125	4
		Total:		14
Third Semester (FALL)				
1B/Second Comp				3
5B				3
3A				3
LD Major	CHEM 111	General Chemistry I		3
LD Major	CHEM 111L	General Chemistry Lab I		2
		Total:		14
Fourth Semester (SPRING)				
Free Elective				3
Area 4/Code 1				3
Area 6		Ethnic Studies		3
LD Major	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	5
LD Major	GEOL 297	Introductory Field Course		1
		Total:		15
Fifth Semester (FALL)				
Free Elective				4
Area 4/Code 2				3
UD Major	GEOL 360	Mineralogy and Optical Mineralogy	CHEM 112 and EESC 210	4
LD Major	EESC 360	Introduction to GIS in Earth, Environmental and Sustainability Sciences		3
		Total:		14
Sixth Semester (SPRING)				
UWR				3
UD-Area 4/Overlay				3
UD Major	GEOL 361	Ig Met Petrology	GEOL 360	4
UD Major	GEOL 371	Sedimentary Geology and Stratigraphy	GEOL 361	4
Free Elective				3
		Total:		17
Seventh Semester (FALL)				
Free Elective				3
UD Major	GEOL 381	Structural Geology	GEOL 360	5
UD-Area 5/Overlay				3
UD Major	GEOL	Disciplinary breadth/depth elective		3
		Total:		14
Eighth Semester (SPRING)				
UD Major	GEOL	Disciplinary breadth/depth elective		3
UD Major	GEOL	Disciplinary breadth/depth elective		4
UD Major	EESC 499	Capstone Seminar in Earth, Environmental and Sustainability Sciences	Junior or senior standing.	3
UD-Area 3/Overlay				3
Free Elective				3
		Total:		16
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.

CSUEB General Breadth and Graduation Requirement Checklist	
Area 1 (9 units): English Communication	
<input type="checkbox"/> 1A - Lower Division English Composition	
<input type="checkbox"/> 1B - Lower Division Critical Thinking and Composition	
<input type="checkbox"/> 1C - Lower Division Oral Communication	
Area 2 (3 units) : Mathematical Concepts and Quantitative Reasoning	
<input type="checkbox"/> Area 2 - Mathematical Concepts and Quantitative Reasoning	
Area 3 (6 units): Arts & Humanities - Minimum of two different disciplines as designated by course prefix (e.g., ART, THEA, MUS)	
<input type="checkbox"/> 3A - Arts and Humanities (Arts)	
<input type="checkbox"/> 3B - Arts and Humanities (Humanities)	
Area 4 (6 units) : Social and Behavioral Sciences - Minimum of two different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)	
<input type="checkbox"/> Area 4 - Lower Division Social and Behavioral Sciences	
<input type="checkbox"/> Area 4 - Lower Division Social and Behavioral Sciences	
Area 5 (7 units): Physical and Biological Sciences	
<input type="checkbox"/> 5A - Lower Division Physical and Biological Sciences (Physical)	
<input type="checkbox"/> 5B - Lower Division Physical and Biological Sciences (Biological)	
<input type="checkbox"/> 5C - Lower Division Physical and Biological Sciences (Laboratory) -- May be embedded in 5A or 5B course, as long as 7 units met for lower-division Subject Area 5.	
Area 6 (3 units): Ethnic Studies	
<input type="checkbox"/> Area 6 - Ethnic Studies	
Second Composition : Second Composition (Required as part of 1B for 2025-26 or later catalog)	
<input type="checkbox"/> Second Composition	
University Writing Requirement (3-4 units)	
<input type="checkbox"/> 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).	
<input type="checkbox"/> Code 1	
<input type="checkbox"/> Code 2	
Upper Division GE Requirements (9 units): Should be taken after completion of 1A, 1B, 1C, and Area 2 with a C- (CR)	
<input type="checkbox"/> UD- Area 3 - Upper Division Arts or Humanities	
<input type="checkbox"/> UD- Area 4 - Upper Division Social and Behavioral Sciences	
<input type="checkbox"/> UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning	
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major	
<input type="checkbox"/> Diversity (Div)	
<input type="checkbox"/> Social Justice (SJ)	
<input type="checkbox"/> Sustainability (S)	
Elective Courses	
General B.A. Geology degree program students must choose a minimum of 9 units from the following list to complete the major:	
ENSC 350 - Environmental Hydrology Units: 4 ; G.E./G.R. Area: Sustainability	
ENSC 410 - Geohealth Units: 3	
GEOL 311 - Geomorphology Units: 3	
GEOL 341 - General Oceanography Units: 4	
GEOL 342 - Planetary Geology Units: 3	
GEOL 343 - Atmospheric Science Units: 3	
GEOL 397 - Advanced Field Experience Units: 2	
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	

*Students are required to take a minimum of 40 semester units as upper division (includes 9 units upper division GE)