

Degree: Environmental Science B.S. 26-27				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester (Fall)				
Major Recommended	EESC 133	Introduction to the Earth, Environmental and Sustainability Sciences for Majors		1
1A		English Composition		3
Major Required/5A /5US	EESC 280	Humans and the Environment in California		3
Area 4/Code1 or Code2		Social and Behavioral Sciences		3
Major Required	PHYS 125	Principles of Physics I	Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.	4
Major Required	EESC 297	Introductory Field Experience		1
		Total		15
Second Semester (Spring)				
1C		Oral Communication		3
Area 4/Code1 or Code2		Social and Behavioral Sciences		3
Major Required/Area 2	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).	3
Major Required	PHYS 126	Principles of Physics II		4
Free Elective				2
		Total		15
Third Semester (Fall)				
1B		Critical Thinking and Composition		3
Major Required/5B	EESC 240	Environmental Biology		3
Major Required/5C	EESC 241	Environmental Biology Laboratory		1
Major Required	EESC 210	Physical and Environmental Geology and Geography		4
Major Required	CHEM 111	General Chemistry I		3
Major Required	CHEM 111L	General Chemistry I Laboratory		2
		Total		16
Fourth Semester (Spring)				
Area 6		Ethnic Studies		3
3B		Humanities		3
Major Required	CHEM 112	General Chemistry II	CHEM 111 & CHEM 111L with a C- or higher	3
Major Required	CHEM 112L	General Chemistry II Laboatory	CHEM 111 & CHEM 111L with a C- or higher	2
3A		Arts		3
		Total		14
Fifth Semester (Fall)				
UD-Area 5 or Free Elective				3
UWR				3
Major Required	EESC 360	Introduction to GIS in Earth, Environmental and Sustainability Sciences		3
Major Required	EESC 397	Advanced Field Experience	EESC 297	2
Major Required	STAT 303	Statistical Methods in Biology		3
		Total		14
Sixth Semester (Spring)				
UD-Area 4/Overlay				3
UD-Area 3/Overlay				3
Major Required	BIOL 350	Ecology		4
Free Elective				3
Free Elective				3
		Total		16
Seventh Semester (Fall)				
Major Required	EESC 420	Global Climate Change		3
Major Required Elective	EESC 350 or EESC 432	Environmental Hydrology or Hydrogeology	ENSC 350 requires either CHEM 100 or CHEM 111, and either MATH 120, MATH 125, or MATH 130, and Highly recommended either PHYS 115, PHYS 125, or PHYS 135 and GEOL 432 requires Either CHEM 100 or CHEM 111, and either MATH 120, MATH 125, or MATH 130, and either PHYS 115, PHYS 125, or PHYS 135.	4
Major Required Elective	EESC 375 or EESC 445 or EESC 447 or EESC 455 or EESC 460 or EESC 465	Fire Ecology and Management or Water and Watershed Resources Energy, Climate and Society or Sustainable Food Systems or Advanced GIS in Earth, Environmental and Sustainability Sciences or Sustainable Communities and Development	EESC 460 requires EESC 360	3
Free Elective				3
Free Elective				3
		Total		16
Eighth Semester (Spring)				
Major Required	EESC 499	Capstone Seminar in Earth, Environmental and Sustainability Sciences		3
Major Required	EESC 410	Environmental Impact Analysis		3
Major Required Elective	EESC 451 OR EESC 320	Hydroinformatics OR Quantitative Methods in Earth, Environmental and Sustainability Sciences		4
Major Required Elective	EESC 343 or EESC 434	Atmospheric Science or Biogeochemistry	GEOL 343 requires PHYS 125, PHYS 126, and CHEM 110 or CHEM 111, and EESC 434 requires CHEM 112 and CHEM 112L	3
Free Elective				1
		Total		14
		Degree Total		120

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)