

Geography B.S. 26-27				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester (Fall)				
Area 1A English Composition (old A2)				3
Major Required and Area 4 Social and Behavioral Sciences (old D1-2)	EESC 120	Human Geography Units: 3 Breadth Area: GE 4		3
Major Required and Area 5 Physical and Biological Sciences (Physical) (old B1) SA 5C	EESC 210	EESC 210 Physical and Environmental Geology and Geography Units: 4 with lab Breadth Area: GE-5A, GE-5C		4
Elective				3
Elective				3
			Total	16
Second Semester (Spring)				
Area 1C Oral Communication (old A1)				3
Major Required and Area 4 Social and Behavioral Sciences (old D1-2)	EESC 125	World Regions and Development Units: 3 Breadth Area: GE 4		3
Area 2 Mathematical Concepts and Quantitative Reasoning (old B4)				3
Major Required	EESC 211	Historical Geology and Geography Units: 4 with lab Breadth Area: GE-5A, GE-5C		4
Major Required	EESC 297	Introductory Field Experience Units: 1		1
			Total	14
Third Semester (Fall)				
Area 1B Critical Thinking (old A3)				3
Area 3A Arts and Humanities (Arts) (old C1)				3
Area 5 Physical and Biological Sciences (Biological) (old B2) 5B				3
Free Elective				3
Code 1				3
			Total	15
Fourth Semester (Spring)				
Ethnic Studies (old F)				3
Area 3B Arts and Humanities (Humanities) (old C2)				3
Free Elective				3
Free Elective				3
Code 2				3
			Total	15
Fifth Semester (Fall)				
UD 5 or Free Elective				3
SUST or Free Elective				3
Major Required	EESC 360	Introduction to GIS in Earth, Environmental and Sustainability Sciences Units :3		3
Major Required	EESC 397	Advanced Field Experience Units: 2	EESC 297	2
Major Required	EESC 310	Literature and Research Methods Units: 3	EESC 280 or GEOG 125	3
Free Elective				1
			Total	15
Sixth Semester (Spring)				
UD4 or Free Elective				3
SJ				3
Free Elective				3
UWR				3
Free Elective				3
			Total	15
Seventh Semester (Fall)				
DIV				3
UD3				3
Major Required	EESC 460	Advanced GIS in Earth, Environmental and Sustainability Sciences Units: 3	EESC 360	3
Major Required Elective	EESC 355 or EESC 375 or EESC 445 or EESC 447 or EESC 455 or EESC 465	California Units: 3 ; Breadth Area: GE-UD-4; Sustainability or Fire Ecology and Management Units: 3 or Water and Watershed Resources Units: 3 ; Breadth Area: GE-UD 5 or Energy, Climate and Society Units: 3 ; Breadth Area: GE-UD 5; Sustainability or Sustainable Food Systems Units: 3 ; Breadth Area: GE-UD-4; Sustainability or Sustainable Communities and Development Units: 3 ; Breadth Area: GE-UD-4; Sustainability		3
Major Required	EESC 420	Global Climate Change Units: 3 GE SUST		3
			Total	15
Eighth Semester (Spring)				
Major Required Elective	EESC 320 or EESC 451 or EESC 461 or EESC 462	Quantitative Methods in Earth, Environmental and Sustainability Sciences Units: 3 or Hydroinformatics Units: 4 or Remote Sensing for the Earth, Environmental and Sustainability Sciences Units: 3 or Earth, Environmental and Sustainability Sciences Applications of Unmanned Aerial Systems Units: 3	EESC 461 and EESC 462 require EESC 360	3
Major Required	EESC 499	Capstone Seminar in Earth, Environmental and Sustainability Sciences Units: 3		3
Major Required Elective	EESC 355 or EESC 375 or EESC 445 or EESC 447 or EESC 455 or EESC 465	California Units: 3 ; Breadth Area: GE-UD-4; Sustainability or Fire Ecology and Management Units: 3 or Water and Watershed Resources Units: 3 ; Breadth Area: GE-UD 5 or Energy, Climate and Society Units: 3 ; Breadth Area: GE-UD 5; Sustainability or Sustainable Food Systems Units: 3 ; Breadth Area: GE-UD-4; Sustainability or Sustainable Communities and Development Units: 3 ; Breadth Area: GE-UD-4; Sustainability		3
Major Required Elective	EESC 355 or EESC 375 or EESC 445 or EESC 447 or EESC 455 or EESC 465	California Units: 3 ; Breadth Area: GE-UD-4; Sustainability or Fire Ecology and Management Units: 3 or Water and Watershed Resources Units: 3 ; Breadth Area: GE-UD 5 or Energy, Climate and Society Units: 3 ; Breadth Area: GE-UD 5; Sustainability or Sustainable Food Systems Units: 3 ; Breadth Area: GE-UD-4; Sustainability or Sustainable Communities and Development Units: 3 ; Breadth Area: GE-UD-4; Sustainability		3
Free Elective				3
			Total	15
			Degree Total	120

If double up UD 3 or UD 4 and SJ DIV has more free electives

CSUEB General Breadth and Graduation Requirement Checklist		Semester
Area 1 (9 units): English Communication		
<input type="checkbox"/> 1A - Lower Division English Composition	3	1 F
<input type="checkbox"/> 1B - Lower Division Critical Thinking and Composition	3	2 F
<input type="checkbox"/> 1C - Lower Division Oral Communication	3	1 S
Area 2 (3 units): Mathematical Concepts and Quantitative Reasoning		
<input type="checkbox"/> Area 2 - Mathematical Concepts and Quantitative Reasoning	3	1 S
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)	3	2 F
<input type="checkbox"/> 3B - Arts and Humanities (Humanities)	3	2 S
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	3	1 F
<input type="checkbox"/> Area 4 - Lower Division Social and Behavioral Sciences	3	1 S
Area 5 (7 units): Physical and Biological Sciences		
<input type="checkbox"/> 5A - Lower Division Physical and Biological Sciences (Physical)	3	1 F
<input type="checkbox"/> 5B - Lower Division Physical and Biological Sciences (Biological)	3	2 F
<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.	1	1 F
Area 6 (3 units): Ethnic Studies		
<input type="checkbox"/> Area 6 - Ethnic Studies	3	2 S
Second Composition : Second Composition (Required as part of 1B for 2025-26 or later catalog)		
<input type="checkbox"/> Second Composition	0	2 F
University Writing Requirement (3-4 units)		
<input type="checkbox"/> UWR	3	3 S
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	3	2 F
<input type="checkbox"/> Code 2	3	2 S
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	3	4 F
<input type="checkbox"/> UD- Area 4 - Upper Division Social and Behavioral Sciences	3	3 S
<input type="checkbox"/> UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning	3	3 F
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major		
<input type="checkbox"/> Diversity (Div)	3	3 S
<input type="checkbox"/> Social Justice (SJ)	3	4 F
<input type="checkbox"/> Sustainability (S)	3	3 F
EESC 120 Human Geography Units: 3 Breadth Area: GE 4	3	1 F
EESC 125 World Regions and Development Units: 3 Breadth Area: GE 4	3	1 S
EESC 210 Physical and Environmental Geology and Geography Units: 4 with lab Breadth Area: GE-5A, GE-5C	4	1 F
EESC 211 Historical Geology and Geography Units: 4 with lab Breadth Area: GE-5A, GE-5C	4	1 S
EESC 297 Introductory Field Experience Units: 1	1	1 S
EESC 310 Literature and Research Methods Units: 3	3	3 F
EESC 360 Introduction to GIS in Earth, Environmental and Sustainability Sciences Units :3	3	3 F
EESC 397 - Advanced Field Experience Units: 2	2	3 F
EESC 420 - Global Climate Change Units: 3 GE SUST	3	4 F
EESC 460 - Advanced GIS in Earth, Environmental and Sustainability Sciences Units: 3	3	4 F
EESC 499 - Capstone Seminar in Earth, Environmental and Sustainability Sciences Units: 3	3	4 S
One from the following for 3 or 4 units	3	4 S
EESC 320 Quantitative Methods in Earth, Environmental and Sustainability Sciences Units: 3		
EESC 451 Hydroinformatics Units: 4		
EESC 461 - Remote Sensing for the Earth, Environmental and Sustainability Sciences Units: 3		
EESC 462 - Earth, Environmental and Sustainability Sciences Applications of Unmanned Aerial Systems Units: 3		
Three from the following	9	4 F, 4 S and 4 S
EESC 355 - California Units: 3 ; Breadth Area: GE-UD-4; Sustainability		
EESC 375 - Fire Ecology and Management Units: 3		
EESC 445 - Water and Watershed Resources Units: 3 ; Breadth Area: GE-UD5		
EESC 447 - Energy, Climate and Society Units: 3 ; Breadth Area: GE-UD5; Sustainability		
EESC 455 - Sustainable Food Systems Units: 3 ; Breadth Area: GE-UD-5; Sustainability		
EESC 465 - Sustainable Communities and Development Units: 3; Breadth Area: GE-UD-5; Sustainability		
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