

Geography ADT to Geography B.S.

Title	C-ID Designation	C-ID Units	Double	CSUEB Course	Units
REQUIRED CORE: (6-7 units)					
Introduction to Physical Geography (3) OR Introduction to Physical Geography with Lab (4) OR Introduction to Physical Geography (3) AND Physical Geography, Laboratory (1)	GEOG 110 OR GEOG 115 OR GEOG 110 AND GEOG 111				
Introduction to Human Geography (3) OR World Regional Geography (3)	GEOG 120 OR GEOG 125				
LIST A: Select two to three (6-7 units minimum)					
Any Core course not already used.					
Physical Geography, Laboratory (1) (If GEOG-111 or 115 not already used above)	GEOG 111				
California Geography (3)	GEOG 140				
Introduction to Geographic Information Systems and Techniques with Lab (2)	GEOG 155				
Map Interpretation and Analysis (2)	GEOG 150				
Introduction to Weather and Climate (3)	GEOG 130				
Regional Field Studies (1)	GEOG 160				
LIST B: Select two (6 units minimum)					
Any LIST A course not already used.					
Any CSU transferable Geography course.	BCT				
OR Other courses, in or outside the discipline, that are articulated as lower division major preparation for the geography major at a CSU.	AAM				
Introduction to Cultural Anthropology (3)	ANTH 120				
Physical Geology (3)	GEOL 100				
Total Units for the Major:			18-20		
Total Units that may be double-counted (The transfer GE Area limits must not be exceeded)			-		
General Education (Cal-GETC) Units			34		
Elective Units			6-8		
Total Degree Units (maximum)			60		

GRADUATION REQUIREMENTS These should be fulfilled at the Community College, however if not taken at the Community College, they must be completed at CSU East Bay			
US History, Constitution & American Ideals			
First Category US-1			0-3
Second Category US-2			0-3
Third Category US-3			0-3
		Total Units	0-9
These courses must be taken at CSU East Bay			
Please note: A minimum of three courses in the Upper Division General Education pattern must have a topic/learning outcome oriented toward one of the following topic areas (overlays): Diversity (DIV) , Social Justice (SJ) , or Sustainability (S) .			
Upper Division GE/Overlay	Courses	Overlay	Units
GE-UD-B			3
GE-UD-C			3
GE-UD-D			3
		Total Units	9
University Writing Requirement	Course	GE/Overlay	Units
UWR			3
		Total Units	3
Lower Division Core	Course	GE/Overlay	Units
EESC 297	Introductory Field Experience		1
		Total Units	1
Upper Division Core (14 units)			
Take all of the following five (5) upper-division core courses for 14 units:			
EESC 310 - Literature and Research Methods Units: 3			
EESC 360 - Introduction to GIS in Earth, Environmental and Sustainability Sciences Units: 3			
EESC 397 - Advanced Field Experience Units: 2			
EESC 420 - Global Climate Change Units: 3 ; Breadth Area: Sustainability			
EESC 460 - Advanced GIS in Earth, Environmental and Sustainability Sciences Units: 3			
		Total Units	14
Upper Division Electives (12-13 units)			
Complete a total of four (4) elective courses for 12-13 units:			
Choose one (1) course for 3-4 units from the following list:			
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 (UAS) Units: 3			

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Plus, choose three (3) courses for 9 units from the following list:			
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-UD-5			
EESC 447 - Energy, Climate and Society Units: 3 ; Breadth Area: GE-UD-5; Sustainability			
EESC 455 - Sustainable Food Systems Units: 3 ; Breadth Area: GE-UD-4; Sustainability			
EESC 465 - Sustainable Communities and Development Units: 3 ; Breadth Area: GE-UD-4; Sustainability			
		Total Units	12
Capstone Requirement (3 units)			
The following capstone experience, for 3 units, is required to complete the major:			
EESC 499 - Capstone Seminar in Earth, Environmental and Sustainability Sciences Units: 3			
		Total Units	3
ADDITIONAL COURSE(S) to MEET 60 UNITS		GE/Overlay	Units
These courses may be additional major courses or prerequisites taken at the Community College.			
Free Elective Elective			18
		Total Units	18
		Grand Total:	60

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Requirement Area	Course	Course Title	Prerequisites	Units
Fifth Semester (Fall)				
UD 5 or Free Elective				4
SUST or Free Elective				3
Major Required	EESC 360	Introduction to GIS in Earth, Environmental and Sustainability Sciences Units :3		3
Major Required	EESC 297	Introductory Field Experience Units: 1		2
Major Required	EESC 310	Literature and Research Methods Units: 3	EESC 280 or EESC 125	3
			Total	15
Sixth Semester (Spring)				
Major Required	EESC 397	Advanced Field Experience Units: 2	EESC 297	2
SJ				3
UD4 or Free Elective				3
UWR				3
Free Elective				4
			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
If double up UD 3 or UD 4 and SJ DIV has more free electives			Degree Total	60