Degree: Geography, B.S.: Spatial Techniques Concentration 25-26

Requirement Area	Course	Course Title	Prerequisites	Units
First Semester				
Recommended	EESC 133	Introduction to the Earth, Environmental and Sustainability Sciences for Majors		1
Major	EESC 297	Introductory Field Experience		1
1A				3
5A and LD Major	EESC 210	Physical and Environmental Geology and Geography		3
Area 4/LD Major	GEOG 120	Human Geography: Diversity and Globalization		3
Free Elective				3
			Total:	14
Second Semester				
1C				3
Area 2				3
LD Major	EESC 211	Historical Geology and Geography		3
Area 4/LD Major	GEOG 125			3
			Total:	12
Third Semester				
1B/Second Comp				3
5B/5C				3
Area 6		Ethnic Studies		3
3B				3
Free Elective				3
			Total:	15
Fourth Semester				
Free Elective				3
3A				3
Code 1				3
Free Elective				3
Free Elective				3
			Total:	15
Fifth Semester				
UD-Area 5/Overlay				3
Code 2				3
UD Major	EESC 397	Advanced Field Experience	EESC 297	
UD Major	EESC 310	Literature and Research Methods	EESC 280 or GEOG 125	4
UD Major	EESC 360	Introduction to GIS in Earth, Environmental and Sustainability Sciences		3
UWR				3
			Total:	16
Sixth Semester				
UD-Area 4/Overlay				3
Concentration	GEOG	Concentration		3
Concentration	GEOG	Concentration		4
Free Elective				4
Free Elective				3
			Total:	17
Seventh Semester				
UD-Area 3				3
UD Major/Sus	EESC 420	Global Climate Change		3
UD Major	EESC 460	Advanced GIS in Earth, Environmental and Sustainability Sciences		3
Concentration	GEOG	Concentration		3
Free Elective				3
			Total:	15
Eighth Semester				
UD Major	EESC 499	Capstone Seminar in Earth, Environmental and Sustainability Sciences	Senior standing	3
Concentration	GEOG	Concentration		3
Free Elective				4
Free Elective				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
☐ 1A - Lower Division English Composition
☐ 1B - Lower Division Critical Thinking and Composition
☐ 1C - Lower Division Oral Communication
Area 2 (3 units) : Mathematical Concepts and Quantitative Reasoning
☐ 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)
☐ 3A - Arts and Humanities (Arts)
☐ 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)
☐ Area 4 - Lower Division Social and Behavioral Sciences
☐ Area 4 - Lower Division Social and Behavioral Sciences
Area 5 (7 units): Physical and Biological Sciences
☐ 5A - Lower Division Physical and Biological Sciences (Physical)
☐ 5B - Lower Division Physical and Biological Sciences (Biological)
☐ 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
☐ Area 6 - Ethnic Studies
Second Composition : Second Composition (Required as part of 1B for 2025-26 or later catalog)
☐ Second Composition
University Writing Requirement (3-4 units)
☐ 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 1A, 1B, 1C, and Area 2 with a C- (CR)
☐UD- Area 3 - Upper Division Arts or Humanities
☐ UD- Area 4 - Upper Division Social and Behavioral Sciences
☐ 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
☐ Diversity (Div)
☐ Social Justice (SJ)
☐ Sustainability (S)
Spatial Techniques Concentration
The Spatial Techniques concentration consists of 12-13 units. Students must complete the following courses:
EESC 320 - Quantitative Methods in Earth, Environmental and Sustainability Sciences Units: 3
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
Plus, any approved 3 or 4 unit upper division EESC, ENVT or GEOG course not already taken.

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