

| Degree: Environmental Science B.S. 25-26 | | | | |
|--|--|---|---|-------|
| 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 /SUS | 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) | | | | |
| 18 | | 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 Laboratory | 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 | ENSC 350 or GEOL 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 | GEOG 375 or GEOG 445 or GEOG 447 or EESC 455 or EESC 460 or GEOG 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 | GEOL 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) |