

| Degree: Environmental Science, B.S. 22-23 | | | | |
|---|----------------------------|--|---|-------|
| Requirement Area | Course | Course Title | Prerequisites | Units |
| First Semester (FALL) | | | | |
| E | GS 101A | Foundations of Success I | | 1 |
| A1 | COMM 100 | Communication | | 3 |
| B1/LD Major | CHEM 111 | General Chemistry I | | 3 |
| B3/LD Major | CHEM 111L | General Chemistry Lab I | | 2 |
| LD Major | ENSC 280 | General Environmental Science | | 3 |
| | | | 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). | |
| B4 | MATH 130 | Calculus I | | 4 |
| | | Total: | | 16 |
| Second Semester (SPRING) | | | | |
| E | GS 101B | Foundations of Success II | | 1 |
| A2 | ENGL 102 | English Composition | | 3 |
| Add'l C1 or C2 | open | | | 3 |
| D1 | open | Social Science GE elective | | 3 |
| LD Major | CHEM 112 | General Chemistry II | CHEM 111 with grade C- or better. | 5 |
| | | Total: | | 15 |
| Third Semester (FALL) | | | | |
| A3 | PHIL 100 | Workshop in Critical Thinking | | 3 |
| B2/LD Major | ENSC 240 | Environmental Biology | | 3 |
| C1 | open | Fine Arts Elective | | 3 |
| | | | Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120. | |
| LD Major | PHYS 125 | Principles of Physics I | | 4 |
| LD Major | ENSC 241 | Environmental Biology laboratory | | 1 |
| | | Total: | | 14 |
| Fourth Semester (SPRING) | | | | |
| Second Composition | ENGL 200 or PHYS 230 | | | 3 |
| E | | | | 1 |
| C2 | open | Humanities Elective | | 3 |
| Code 1/D2 | open | American History elective | | 3 |
| LD Major | PHYS 126 | Principles of Physics II | PHYS 125. | 4 |
| LD Major | ENSC 297 | Disciplinary Field course | | 1 |
| | | Total: | | 15 |
| Fifth Semester (FALL) | | | | |
| F | | Ethnic Studies | | 3 |
| UD-B | open | UD Science GE elective | | 3 |
| LD Elective | ENSC 260 | Introduction to GIS | | 3 |
| LD Major | GEOL 210 | Physical and Environmental Geology | | 4 |
| UD Major | ENSC | Disciplinary breadth/depth elective | | 3 |
| | | Total: | | 16 |
| Sixth Semester (SPRING) | | | | |
| Code 2 | open | California History elective | | 3 |
| | | | Either CHEM 100 or CHEM 111, and either MATH 120 or MATH 130, and either PHYS 115 or PHYS 125. | |
| UD Major | ENSC 350/GEOL 432 | Env Hydrology or Hydrogeology | | 4 |
| UD Major | STAT 303 | UD Statistics | Completion of GE area B4. | 3 |
| UD Major | BIOL 350 | Ecology | MATH 115, STAT 303, and either BIOL 140B or ENSC 280. | 4 |
| | | Total: | | 14 |
| Seventh Semester (FALL) | | | | |
| UD-C/Overlay | open | UD Arts/Humanities GE elective | | 3 |
| UD-D/Overlay | open | UD Social Science GE elective | | 3 |
| UD Major | ENSC 420/ENSC 414/ENSC 497 | Global Change (or other UD Systems course) | | 3 |
| UD Major | open, e.g. ENVT 330 | UD Environmental Policy or Ethics elective | | 3 |
| UD Major | ENSC | Disciplinary breadth/depth elective | | 3 |
| | | Total: | | 15 |
| Eighth Semester (SPRING) | | | | |
| UD Major | GEOL | Disciplinary breadth/depth elective | | 4 |
| UD Major | ENVT 410 | Environmental Impact Analysis | ENVT 310 | 3 |
| UD Major | ENVT | Disciplinary breadth/depth elective | | 3 |
| | | | GEOL/ENSC 297 and junior or senior standing. | |
| UD Major | ENSC 397 | Advanced Field Experience | | 2 |
| UD Major | ENSC 499 | Capstone Seminar | Junior or senior standing. | 3 |
| | | Total: | | 15 |
| 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.

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

| CSUEB General Breadth and Graduation Requirement Checklist |
|--|
| Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better) |
| <input type="checkbox"/> A1. COMM 100 or 104, MLL 111 |
| <input type="checkbox"/> A2. ENGL 101, 102, or 104 |
| <input type="checkbox"/> A3. PHIL 100 |
| Area B (9 units) : Scientific Inquiry & Quantitative Reasoning |
| <input type="checkbox"/> B1. Physical Science |
| <input type="checkbox"/> B2. Life Science |
| <input type="checkbox"/> B3. Laboratory Activity |
| <input type="checkbox"/> B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.) |
| Area C (9 units): Arts & Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS) |
| <input type="checkbox"/> C1. Arts |
| <input type="checkbox"/> C2. Humanities |
| <input type="checkbox"/> *Additional Lower-division Area C Course in Arts (C1) or Humanities (C2) |
| Area D (6 units) : Social Sciences - Minimum of three different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC) |
| <input type="checkbox"/> D1. |
| <input type="checkbox"/> D2. |
| Area E (3 units) : Lifelong Learning and Self-Development |
| <input type="checkbox"/> E. |
| Area F (3 units): Ethnic Studies |
| <input type="checkbox"/> F. |
| Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing. |
| <input type="checkbox"/> Second Composition |
| 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 |
| <input type="checkbox"/> UD-B. Upper-division Science Inquiry and Quantitative Reasoning |
| <input type="checkbox"/> UD-C. Upper-division Arts OR Humanities |
| <input type="checkbox"/> UD-D. Upper-division Social Sciences |
| Overlay Requirements (9 units): Courses may be upper or lower |
| <input type="checkbox"/> Diversity (Div) |
| <input type="checkbox"/> Social Justice (SJ) |
| <input type="checkbox"/> Sustainability (S) |
| Elective Coursework |
| Only students NOT choosing the Environmental Health concentration |
| Choose one (1) course for 3 units: |
| GEOL 225 - Fundamentals of GIS Units: 3 |
| ENSC 260 - Introduction to GIS in Earth and Environmental |
| Plus choose one (1) course for 3 units from the following: |
| ENSC 414 - Hazardous Waste Management Units: 3 ; G.E./G.R. Area: |
| |
| ENSC 420 - Global Change Units: 3 ; G.E./G.R. Area: Sustainability |
| ENSC 497 - Special Topics and Issues in Environmental Sciences Units: 3 |
| |
| And, choose one (1) course for 3-4 units from the following: |
| ECON 360 - Environmental Economics Units: 3 |
| ENGL 342 - Environmental Literature Units: 4 ; G.E./G.R. Area: UD-C; Sustainability |
| ENVT 330 - Environment, Sustainability, and Social Justice Units: 3 ; G. E./G.R. Area: UD-D; Sustainability |
| HSC 340 - Climate Change, Health, and Equity Units: 3 ; G.E./ G.R. Area: UD-D; Social Justice |
| POSC 344 - Environmental Law Units: 3 |
| POSC 411 - Public Policy and the Environment Units: 3 ; G.E./G.R. Area: Sustainability |
| SOC 330 - Environmental Sociology Units: 4 ; G.E./G.R. Area: UD-D |
| Depth Electives |
| Choose a minimum of 9-11 units from the following depth-electives: |
| BIOL 433 - Microbial Ecology Units: 3 |
| BIOL 454 - Biology of Fungi Units: 4 |
| BIOL 469 - Conservation Biology Units: 4 |
| |
| CHEM 220 - Quantitative Analysis Units: 4 |
| CHEM 331 - Organic Chemistry I Units: 5 |
| CHEM 425 - Environmental Chemistry Units: 4 |
| ENSC 410 - Geohealth Units: 3 |
| GEOL 425 - Advanced GIS Units: 3 |
| GEOL 311 - Geomorphology Units: 3 |
| GEOL 360 - Mineralogy and Optical Crystallography Units: 4 |
| GEOL 371 - Sedimentary Geology and Stratigraphy Units: 4 |
| GEOL 460 - Geographic Information Systems for Earth and |
| HSC 300 - Environmental Health Units: 3 ; G.E./G.R. Area: UD-B; |
| HSC 460 - Emergency Preparedness and Response Units: 3 |
| Other upper-division major-related courses may be used with prior |
| One ENSC graduate-level course may be used to satisfy one elective |