



## 2022 - 2023 Bachelor of Science in Environmental Science and Policy

### 83 - 84 Units

Use this checklist in combination with your official Academic Requirements Report (ARR). This checklist is not intended to replace advising. Consult the advisor for appropriate course sequencing. *Curriculum changes in progress. Requirements subject to change.*

To be considered for admission to the major, complete the following Major Specific Requirements (MSR) by 60 units:

- **BIOL 211 & 212, CHEM 111A, MATH 119A or 122, GEOL 102 & 104, ECON 101** with grades of "C" or better and a minimum 2.5 overall GPA
- Grades of "C" or better in GE Foundations

Courses		Prerequisites
<b>Complete ALL of the following courses with grades of "C" or better (7 units total):</b>		
ECON 101: Principles of Microeconomics (3)		MATH 103 or Higher
GEOL 102: Planet Earth (3) AND GEOL 104: Planet Earth Lab (1)		Corequisite: Concurrent or Prior Enrollment in GEOL 102 or 110
<b>Complete ALL of the following courses (6 units total):</b>		
ESP 200: California Environmental Issues (3)		Corequisites: GEOL 102 and 104 or GEOG 130 or 140 or ESP/GEOG 101; BIOL 200 or 211 or ECON 101; or Consent of Instructor
GEOL 280: Water Resources and Society (3)		GEOL 102 and 104; Four Years of High School Math
<b>Complete ONE of the following courses with a grade of "C" or better (3 - 4 units total):</b>		
MATH 119A: Survey of Calculus I (3)		MATH 112B or 113 with a Grade of "C" or Better; or Appropriate CSULB Algebra and Calculus Placement
MATH 122: Calculus I (4)		MATH 111; MATH 112B or 113; All with Grades of "C" or Better; or Appropriate CSULB Algebra and Calculus Placement
<b>Complete ONE of the following courses with a grade of "C" or better (5 units total):</b>		
CHEM 111A: General Chemistry (5)		Prerequisite: MATH 112A with a Grade of "C" or Better; Appropriate Score on the Chemistry Placement Test or Other Measures; or Consent Corequisite: MATH 112B or Higher
CHEM 112A: Advanced General Chemistry (5)		Department Consent
<b>Complete ONE of the following courses with a grade of "C" or better (5 units total):</b>		
CHEM 111B: General Chemistry (5)		CHEM 111A or 112A; MATH 112B or Higher; All with Grades of "C" or Better
CHEM 112B: Advanced General Chemistry (5)		CHEM 112A with a Grade of "C" or Better
<b>Complete ONE of the following courses (3 units total):</b>		
CHEM 220A: Organic Chemistry I (3)		CHEM 111B or 112B with a Grade of "C" or Better
CHEM 227: Fundamentals of Organic Chemistry (3)		CHEM 111A or 112A with a Grade of "C" or Better
<b>Complete ALL of the following courses with grades of "C" or better (16 units total):</b>		
BIOL 211: Introduction to Evolution and Diversity (5)		Prerequisite: CHEM 111A or 112A with a Grade of "C" or Better Corequisite: CHEM 111A or 112A
BIOL 212: Introduction to Cell and Molecular Biology (4)		Prerequisites: BIOL 211; CHEM 111A or 112A with Grades of "C" or Better Corequisite: CHEM 111B or 112B
BIOL 213: Introduction to Ecology and Physiology (4)		BIOL 211 and 212; CHEM 111B or 112B; All with Grades of "C" or Better
BIOL 260: Biostatistics (3)		BIOL 201 or 207 or 211 or MICR 200; MATH 111 or 113 or 119A or 122; All with Grades of "C" or Better
<b>Complete ONE of the following courses (4 units total):</b>		
PHYS 100A: General Physics (4)		MATH 109 or 111 or 112A or 113 or 119A or 122
PHYS 151: Mechanics and Heat (4)		Corequisite: MATH 122 or 123 or 224

Complete <b>ALL</b> the following courses (15 units total):		
	BIOL 350: General Ecology (3)	BIOL 211, 212, 213, 260; MATH 119A or 122; All with Grades of "C" or Better
	ECON 306: Environmental Issues of the World Economy (3)	ECON 101
	ESP 300: Environmental Law and Policy (3)	ESP 200 and Upper Division Standing; or Consent
	ESP 400: Environmental Science and Policy Capstone Project (3)	ESP Majors Only; Passing Score on GPE (or Necessary Portfolio); BIOL 350 or ESP 330; ECON 306 or 462 or 463 or 464 or CE 406; ESP 300; GEOG 473 or 481; GEOL 300; Consent
	GEOL 300: Earth Systems and Global Change (3)	GE Foundations; CHEM 100 or 111A or GEOL 102 or 106 or 110 or 160 with a Grade of "C" or Better; Upper Division Standing
Complete <b>ONE</b> of the following courses (4 units total):		
	GEOG 473: Remote Sensing (4)	
	GEOG 481: Geographic Information Science for Natural Sciences (4)	GEOG 140 or BIOL 153 or GEOL 102; Upper Division Standing; or Consent of Instructor

Environmental Science & Policy Approved Electives (15 units total):		
Complete <b>3 UNITS</b> of social science electives. See Catalog and ARR for the list of approved courses (3 units total):		
	Elective:	
Complete <b>9 UNITS</b> of natural science electives. See Catalog and ARR for the list of approved courses (9 units total):		
	Elective:	
	Elective:	
	Elective:	
Complete <b>3 UNITS</b> of social science or natural science electives. See Catalog and ARR for the list of approved courses (3 units total):		
	Elective:	

**In order to graduate from CSULB, students must complete General Education/GWAR/Major requirements and have a minimum of 120 units (40 must be upper division) with at least a 2.0 in all GPAs (Overall, CSULB, Major).**

#### **Additional Information**

- **See online Catalog for additional course information, limitations, and requirements.**
- Some courses may also fulfill GE requirements. Visit the GE website for course selection: [csulb.edu/general-education](http://csulb.edu/general-education).
- A course can only be used to satisfy one major requirement. Double counting is not allowed within the major.
- CHEM 111A and 111B are part of a two-semester sequence and must be taken consecutively.
- If a transfer student took courses equivalent to BIOL 211, 212, or 213 at another institution without labs, they must take BIOL 211L, 212L, and 213L at CSULB.

<b>Department of Environmental Science and Policy</b>	PH1-210	(562) 985-8432	<a href="http://cla.csulb.edu/programs/es-p">cla.csulb.edu/programs/es-p</a>
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<b>College of Liberal Arts Advising Center (ATLAS)</b>	PH1-104	(562) 985-7804	<a href="http://csulb.edu/atlas">csulb.edu/atlas</a>

Checklists are available on the [ATLAS website](#)