I .	Degree: Biological Sc	iences, B.S.: Ecology and Evolutionary	Biology Concentration 23-24	
Requirement Area	Course	Course Title	Prerequisites	Units
	Degree: Biological Sc	iences, B.S.: Ecology and Evolutionary	Biology Concentration 22-23	
		First Semester (FALL)		
E	BIOL 130	Connecting to Biology		2
A1	COMM 100	Communication		3
B2/LD Major	BIOL 140A	Principles of Cell and Molecular Biology	One from the following: Satisfactory score	5
B4/LD Major	MATH 130	Calculus I	of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH 125 (either course with grade C- or better).	4
C1		Arts		3
			Total:	17
		Second Semester (SPRING)		
A2		Written Communication		3
C2		Humanities		3
D1/CODE 1		Social Science/US Code		3
LD Major	BIOL 140B	Principles of Organismal Biology	BIOL 140A with grade C- or better.	5
			Total:	14
		Third Semester (FALL)	<u> </u>	
E		Lifelong Learning and Self-Development		1
A3	PHIL 100	Workshop in Critical Thinking		3
B1/LD Major	CHEM 111	General Chemistry I		3
B3/LD Major	CHEM 111L	General Chemistry Lab I		2
IID Major	BIOL 310	Genetic Applysis I	BIOL 140B with a grade of C- or better.	4
UD Major	STAT 303	Genetic Analysis I	Completion of GE area B4.	3
UD Major	31A1 303	Statistical Methods for Biology	Total:	16
		Fourth Semester (SPRING)	iotai.	10
		routtii Seillestei (SPKING)		
Second Composition	ENGL 200 or PHYS 230			3
B3/LD Major	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	5
UD Major	BIOL 370	Animal Physiology	STAT 303.	4
UD Major/Elective				3
1			Total:	15
		Fifth Semester (FALL)	Total.	1 13
F		Ethnic Studies		3
UD Major	CHEM 230	Survey of Organic Chemistry	CHEM 112 with grade C- or better.	5
LD Major	PHYS 125	Principles of Physics I		4
UD Major	BIOL 350	Ecology	BIOL 140B, MATH 115, STAT 303.	4
			Total:	16
		Sixth Semester (SPRING)	,	
Add'l C1 or C2*		Arts or Humanities		3
UD Major	BIOL 320	Evolutionary Biology	BIOL 310.	3
			CHEM 230 or CHEM 332, both with grade	1
UD Major	CHEM 340	Survey of Biochemistry	C- or better.	
UD Major LD Major	CHEM 340 PHYS 126	Principles of Physics II	C- or better. PHYS 125	3
UD Major			PHYS 125	3
UD Major LD Major		Principles of Physics II US Code		4
UD Major LD Major UWR		Principles of Physics II US Code Seventh Semester (FALL)	PHYS 125	3 16
UD Major LD Major UWR		Principles of Physics II US Code Seventh Semester (FALL) Social Science	PHYS 125 Total:	4 3 16
UD Major LD Major UWR		Principles of Physics II US Code Seventh Semester (FALL)	PHYS 125	3 16
UD Major LD Major UWR D2/Code 2 UD-B/Overlay		Principles of Physics II US Code Seventh Semester (FALL) Social Science	PHYS 125 Total:	3 3 3
UD Major LD Major UWR D2/Code 2 UD-B/Overlay UD Major/Elective 2 UD Major/Elective		Principles of Physics II US Code Seventh Semester (FALL) Social Science	PHYS 125 Total:	3 16
UD Major LD Major UWR D2/Code 2 UD-B/Overlay UD Major/Elective 2 UD Major/Elective 3		Principles of Physics II US Code Seventh Semester (FALL) Social Science UD Science Eighth Semester (SPRING)	PHYS 125 Total: Completion of GE areas A1, A2, A3 and B4. Total:	3 16
UD Major LD Major UWR D2/Code 2 UD-B/Overlay UD Major/Elective 3 UD-C/Overlay		Principles of Physics II US Code Seventh Semester (FALL) Social Science UD Science Eighth Semester (SPRING) UD Arts or Humanities	PHYS 125 Total: Completion of GE areas A1, A2, A3 and B4. Total: Completion of GE areas A1, A2, A3 and B4.	3 3 3 3 4 14
UD Major UWR D2/Code 2 UD-B/Overlay UD Major/Elective 2 UD-Major/Elective 3 UD-C/Overlay UD-D/Overlay	PHYS 126	Principles of Physics II US Code Seventh Semester (FALL) Social Science UD Science Eighth Semester (SPRING) UD Arts or Humanities UD Social Science	PHYS 125 Total: Completion of GE areas A1, A2, A3 and B4. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas A1, A2, A3 and B4.	3 3 3 3 4 14
UD Major UWR D2/Code 2 UD-B/Overlay UD Major/Elective 2 UD Major/Elective 3 UD-C/Overlay UD-D/Overlay UD-D/Overlay UD Major		Principles of Physics II US Code Seventh Semester (FALL) Social Science UD Science Eighth Semester (SPRING) UD Arts or Humanities	PHYS 125 Total: Completion of GE areas A1, A2, A3 and B4. Total: Completion of GE areas A1, A2, A3 and B4.	3 3 3 3 4 14
UD Major UWR D2/Code 2 UD-B/Overlay UD Major/Elective 2 UD Major/Elective 3 UD-C/Overlay UD-D/Overlay UD Major	PHYS 126 BIOL 460	Principles of Physics II US Code Seventh Semester (FALL) Social Science UD Science Eighth Semester (SPRING) UD Arts or Humanities UD Social Science Undergrad Sem in Ecology and Evolution	PHYS 125 Total: Completion of GE areas A1, A2, A3 and B4. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas A1, A2, A3 and B4. BIOL 320 and BIOL 350.	3 3 3 3 4 14 3 3 2
UD Major UD Major UWR D2/Code 2 UD-B/Overlay UD Major/Elective 2 UD Major/Elective 3 UD-C/Overlay UD-D/Overlay UD-D/Overlay UD-D/Overlay UD Major	PHYS 126	Principles of Physics II US Code Seventh Semester (FALL) Social Science UD Science Eighth Semester (SPRING) UD Arts or Humanities UD Social Science	PHYS 125 Total: Completion of GE areas A1, A2, A3 and B4. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas A1, A2, A3 and B4.	3 3 3 3 4 14 3 3 2
UD Major UWR D2/Code 2 UD-B/Overlay UD Major/Elective 2 UD Major/Elective 3 UD-C/Overlay UD-D/Overlay UD Major	PHYS 126 BIOL 460	Principles of Physics II US Code Seventh Semester (FALL) Social Science UD Science Eighth Semester (SPRING) UD Arts or Humanities UD Social Science Undergrad Sem in Ecology and Evolution	PHYS 125 Total: Completion of GE areas A1, A2, A3 and B4. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas A1, A2, A3 and B4. BIOL 320 and BIOL 350.	3 16

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.

Revised: 03/24/23

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)
☐ A1. COMM 100 or 104, MLL 111
□ A2. ENGL 101, 102, or 104
□ A3. PHIL 100
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning
□ B1. Physical Science
and the second
☐ B2. Life Science
☐ B3. Laboratory Activity
☐ B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)
Area C (9 units): Arts & Humanities - Minimum of two different disciplines as designated by course prefix (e.g., ART, THEA, MUS)
☐ C1. Arts
☐ C2. Humanities
☐ *Additional Lower-division Area C Course in Arts (C1) or Humanities (C2)
Area D (6 units): Social Sciences - Minimum of two different disciplines as
designated by course prefix (e.g., ANTH, ECON, POSC)
□ D1.
□ D2.
Area E (3 units): Lifelong Learning and Self-Development
□ E.
Area F (3 units): Ethnic Studies
□ F.
Second Composition: Requires completion of GE A2 with a C-/CR or better.
Must be completed before attaining junior standing.
Second Composition
University Writing Requirement
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 A1, A2, A3, and B4 with a C- (CR)
☐ UD-B. Upper-division Science Inquiry and Quantitative Reasoning
☐ UD-C.Upper-division Arts OR Humanities
☐ UD-D. Upper-division Social Sciences
Overlay Requirements (9 units): Courses may be upper or lower division,
and GE or major
Diversity (Div)
Social Justice (SJ)
☐ Sustainability (S)
Elective Courses
Choose a minimum of 11 units of electives from the following list of
courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Independent Study may be used for a maximum of 3 units elective
credit. Enrollment in these courses requires approval by a faculty member
and the Department Chair.
BIOL 315 - Marine Biology Units: 4
BIOL 352 - Biogeography Units: 4
BIOL 368 - Fungi of California Units: 3
BIOL 398 - Internship Units: 1-4
BIOL 410 - Genetic Analysis II Units: 3
BIOL 415 - PCR, Sequencing and Fragment Analysis Units: 3
BIOL 424 - Bioinformatics Units: 3
BIOL 444 - Medical Entomology Units: 3
BIOL 454 - Biology of Fungi Units: 4
BIOL 455 - Vertebrate Biology Units: 4
BIOL 458 - Animal Behavior Units: 4
BIOL 466 - Population Biology Units: 4
BIOL 468 - Molecular Ecology Units: 4
BIOL 475 - Global Change Biology Units: 4
BIOL 490 - Independent Study Units: 1-4

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