

Degree: Biological Sciences, B.S.: Physiology Concentration 24-25				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester (FALL)				
E	BIOL 130	Connecting to Biology		2
A1	COMM 100	Communication		3
B4/LD Major Prereq	Math 120	Precal		3
C1				3
D1/CODE 1				3
			Total:	14
Second Semester (SPRING)				
A2	ENGL 102			3
A3	PHIL 100	Workshop in Critical Thinking		3
B2/LD Major	BIOL 140A	Principles of Cell and Molecular Biology		5
UD Major	STAT 303	Statistics for Biology	Completion of GE area B4.	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).	4
	MATH 130	Calculus I		4
			Total:	18
Third Semester (SPRING)				
E				1
C2				3
LD Major	BIOL 140B	Principles of Organismal Biology	BIOL 140A with grade C- or better.	5
B1/LD Major	CHEM 111	General Chemistry I		3
B3/LD Major	CHEM 111L	General Chemistry Lab I		2
			Total:	14
Fourth Semester (FALL)				
Writing II/WID (2nd Comp)	ENGL 200 or PHYS 230	Accelerated College Writing		3
B3/LD Major	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	5
UD Major	BIOL 310	Genetic Analysis I	BIOL 140B with a grade of C- or better.	4
UD Major	BIOL 350	Ecology		4
			Total:	16
Fifth Semester (SPRING)				
UWR/UD-C/Overlay				3
			Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.	4
LD Major	PHYS 125	Principles of Physics I		4
UD Major	CHEM 230	Survey of Organic Chemistry	CHEM 112 with grade C- or better.	5
UD Major	BIOL 320	Evolutionary Biology	BIOL 310.	3
			Total:	15
Sixth Semester (SPRING)				
Add'l C1 or C2*				3
UD-B/Overlay				3
LD Major	PHYS 126	Elementary Physics II	PHYS 125.	4
UD Major	BIOL 370	Animal Physiology	BIOL 140B with grade C- or better and CHEM 112.	4
			Total:	14
Seventh Semester (FALL)				
UD Major	CHEM 340	Survey of Biochemistry		3
UD Major/Capstone	BIOL 488	Environmental Physiology	BIOL 370.	3
D2/Code 2				3
UD Major/Elective 1				3
UD Major/Elective 2				3
			Total:	15
Eighth Semester (FALL)				
Free Elective				2
UD-D/Overlay				3
UD Major/Elective 3				3
UD Major/Elective 4				3
UD Major/Elective 5				3
			Total:	14
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.

Updated: 4/1/2024

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 two 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 two 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	
University Writing Requirement	
<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 A1, A2, A3, and B4 with a C- (CR)	
<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 division, and GE or major	
<input type="checkbox"/> Diversity (Div)	
<input type="checkbox"/> Social Justice (SJ)	
<input type="checkbox"/> Sustainability (S)	
Elective Courses	
Choose 14 units of electives from the following courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Independent Study may be used for a maximum total of 3 units elective credit. Enrollment in these courses requires approval by a faculty member and the Department Chair.	
BIOL 330 - General Microbiology Units: 5	
BIOL 425 - Techniques in Mammalian Cell Culture Units: 3	
BIOL 430 - Microbial Physiology and Metabolism Units: 3	
BIOL 431 - Medical Microbiology Units: 5	
BIOL 432 - Microbe-Host Interactions Units: 3	
BIOL 440 - Molecular Virology Units: 3	
BIOL 441 - Parasitology Units: 3	
BIOL 443 - Hematology Units: 4	
BIOL 445 - Immunology Units: 3	
BIOL 470 - Animal Senses Units: 4	
BIOL 471 - Neurobiology Units: 3	
BIOL 472 - Neurobiology Laboratory Units: 4	
BIOL 473 - Comparative Physiology Units: 3	
BIOL 474 - Biomedical Physiology Units: 3	
BIOL 475 - Global Change Biology Units: 4	
BIOL 476 - General Endocrinology Units: 3	
BIOL 490 - Independent Study Units: 1-4	
BIOL 498 - Internship Units: 1-4	

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