Requirement Area	Course	Course Title	Prerequisites	Units
		First Semester (FALL)		
E	BIOL 130	Connecting to Biology		
A1	COMM 100	Communication		
B4/LD Major	MATH 120	Precalculus		
C1		Arts		
D1/Code 1		Social Science/US Code		
			Total:	1
	S	econd Semester (SPRING)		
E		Lifelong Learning and Self-Development		
A2		Written Communication		
A3		Critical Thinking		
C2		Humanities		
B2/LD Major	BIOL 140A	Principles of Cell and Molecular Biology	Total:	1
		Third Semester (FALL)	TOLDI.	
	1		BIOL 140A with grade C-	
LD Major	BIOL 140B	Principles of Organismal Biology	or better.	
Sustainability Overlay/LD				
Major	GEOL 100	Earth Systems Science		
B1/LD Major	CHEM 111	General Chemistry I		
B3/LD Major	CHEM 111L	General Chemistry Lab I		
UD Major	TED 301	Exploring Education		
			Total:	1
		Fourth Semester (SPRING)		
			CHEM 111 with grade C-	
B3/LD Major	CHEM 112	General Chemistry II	or better.	
LD Major	PHYS 115	Elementary Physics		
LD Wajoi	FIII3 113	Liementary Physics	Completion of GE area	
UD Major	STAT 303	Statistics for Biology	B4.	
Second Composition	ENGL 200 or PHYS 230			
			Total:	1
		Fifth Semester (FALL)		
			CHEM 112 with grade C-	
UD Major	CHEM 230	Survey of Organic Chemistry	or better.	
			BIOL 140B with grade C-	
UD Major	BIOL 370	Animal Physiology	or better and CHEM 112.	
	PHIL 371	Concentration	Completion of GE areas	
		Concentration	A1, A2, A3 and B4.	
	11112 371			
		Ethnic Studies		
			Total:	
F		Sixth Semester (SPRING)	Total:	1
UD-C/Major Concentration F Add'l C1 or C2*				1
F Add'l C1 or C2*		Sixth Semester (SPRING) Arts or Humanities	BIOL 140B with a grade	1
F Add'l C1 or C2*		Sixth Semester (SPRING)	BIOL 140B with a grade of C- or better.	1
F Add'l C1 or C2*	BIOL 310	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115,	1
F Add'l C1 or C2* UD Major UD Major		Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology	BIOL 140B with a grade of C- or better.	1
F Add'l C1 or C2* UD Major UD Major	BIOL 310	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115,	1
F Add'l C1 or C2* UD Major UD Major	BIOL 310	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303.	1
F Add'l C1 or C2* UD Major UD Major	BIOL 310 BIOL 350	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115,	1
F Add'l C1 or C2* UD Major UD Major UWR	BIOL 310 BIOL 350	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL)	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303.	
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2	BIOL 310 BIOL 350	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303.	
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay	BIOL 310 BIOL 350	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code US Code Seventh Semester (FALL) Social Science UD Arts or Humanities	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total:	
F Add'l C1 or C2* UD Major UWR D2/Code 2 UD-C/Overlay UD Major	BIOL 310 BIOL 350	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B.	
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major	BIOL 310 BIOL 350 BIOL 330	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code US Code Seventh Semester (FALL) Social Science UD Arts or Humanities	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total:	1
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major	BIOL 310 BIOL 350 BIOL 330	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. BIOL 140B. Department consent.	1
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major	BIOL 310 BIOL 350 BIOL 330 SCI 308	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology Hands On Science Teaching	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B.	1
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major UD Major	BIOL 310 BIOL 350 BIOL 330 SCI 308	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. BIOL 140B. Department consent. Total:	1
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major UD Major UD Major UD Major/Elective 1	BIOL 310 BIOL 350 BIOL 330 SCI 308	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology Hands On Science Teaching Eighth Semester (SPRING)	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. Department consent. Total: Completion of GE areas	1
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major UD Major UD Major UD Major/Elective 1	BIOL 310 BIOL 350 BIOL 330 SCI 308	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology Hands On Science Teaching	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. Department consent. Total: Completion of GE areas A1, A2, A3 and B4.	1
F Add'l C1 or C2* UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major UD Major UD Major/Elective 1	BIOL 310 BIOL 350 BIOL 330 SCI 308	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology Hands On Science Teaching Eighth Semester (SPRING) UD Science	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. BIOL 140B. Department consent. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas	1
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major UD Major UD Major UD Major/Elective 1 UD-B/Overlay UD-D/Overlay UD-D/Overlay	BIOL 310 BIOL 350 BIOL 330 SCI 308	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology Hands On Science Teaching Eighth Semester (SPRING) UD Science UD Science	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. BIOL 140B. Department consent. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas A1, A2, A3 and B4.	1
F Add'l C1 or C2* UD Major UD Major UWR D2/COde 2 UD-C/Overlay UD Major UD Major UD Major UD Major/Elective 1 UD-B/Overlay UD-B/Overlay UD-D/Overlay UD Major	BIOL 310 BIOL 350 BIOL 330 SCI 308 SCI 308 BIOL 320	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology Hands On Science Teaching Eighth Semester (SPRING) UD Science UD Social Science Evolutionary Biology	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. BIOL 140B. Department consent. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas	1
F Add'l C1 or C2* UD Major UD Major UWR D2/Code 2 UD-C/Overlay UD Major UD Major UD Major UD Major/Elective 1 UD-B/Overlay UD-D/Overlay UD Dajor UD Major UD Major UD Major UD Major	BIOL 310 BIOL 350 BIOL 330 SCI 308	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology Hands On Science Teaching Eighth Semester (SPRING) UD Science UD Science	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. BIOL 140B. Department consent. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas A1, A2, A3 and B4.	
F Add'l C1 or C2* UD Major UD Major UWR D2/COde 2 UD-C/Overlay UD Major UD Major UD Major UD Major/Elective 1 UD-B/Overlay UD-B/Overlay UD-D/Overlay UD Major	BIOL 310 BIOL 350 BIOL 330 SCI 308 SCI 308 BIOL 320	Sixth Semester (SPRING) Arts or Humanities Genetic Anallysis I Ecology US Code Seventh Semester (FALL) Social Science UD Arts or Humanities General Microbiology Hands On Science Teaching Eighth Semester (SPRING) UD Science UD Social Science Evolutionary Biology	BIOL 140B with a grade of C- or better. BIOL 140B, MATH 115, STAT 303. Total: BIOL 140B. BIOL 140B. Department consent. Total: Completion of GE areas A1, A2, A3 and B4. Completion of GE areas A1, A2, A3 and B4.	1

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 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 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) **Biology Education Concentration** Teacher Education and Statistics The following 10 units of interdisciplinary upper-division coursework is required: Note: PHIL 371 will satisfy GE Area C4. PHIL 371 - Philosophy of Education Units: 3 ; G.E./G.R. Area: UD-C SCI 308 - Hands-On Science Teaching Units: 1 STAT 303 - Statistical Methods in Biology Units: 3 TED 301 - Introduction to Education Units: 3 Concentration Electives Choose one (1) of the following for 3-4 units: BIOL 426 - Advanced Molecular and Cell Biology Units: 3 BIOL 430 - Microbial Physiology and Metabolism Units: 3 BIOL 469 - Conservation Biology Units: 4 BIOL 488 - Environmental Physiology Units: 3

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

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