	Degree: Biolog	cical Sciences, B.S.: Cell and Molecular Biolo	gy Concentration 22-23	
Requirement Area	Course	Course Title	Prerequisites	Units
r	BIOL 130	First Semester (FALL)		Т
EA1	BIOL 130	Connecting to Biology Oral Communication		
A2	2101 4404	Written Communication		
B2/B3/LD Major	BIOL 140A	Principles of Cell and Molecular Biology	One from the following: Satisfactors:	1
B4/LD Major	MATH 130	Calculus I	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/LD IVIAJOI	WATTI 130	Calculus I	Total:	
		Constant Constant (CDDING)	Total.	
	T	Second Semester (SPRING)		1
A3	PHIL 100	Workshop in Critical Thinking		
C1		Arts		
LD Major	BIOL 140B	Principles of Organismal Biology	BIOL 140A with grade C- or better.	
Second Composition	ENGL 200	Second Comp		
			Total:	
		Third Semester (FALL)		_
B1/LD Major	CHEM 111	General Chemistry I		_
B3/LD Major	CHEM 111L	General Chemistry Lab I		1
UD Major	BIOL 310	Genetic Analysis I	BIOL 140B with a grade of C- or better.	
LD Major	PHYS 125	Principles of Physics I		
C2		Humanities		
			Total:	
		Fourth Semester (SPRING)		_
LD	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	
LD Major	PHYS 126	Principles of Physics II	PHYS 125.	
UD Major	BIOL 410	Genetic Analysis II	BIOL 310.	
ob major	5.02 110	Genetic vitalysis ii	5,02,510.	
D1/CODE 1		Social Science/US Code		
			Total:	
		Fifth Semester (FALL)		
E		Lifelong Learning and Self-Development		
F		Ethnic Studies		-
UD Major	CHEM 331	Organic Chemistry I	CHEM 112 with grade C- or better.	
UD Major	BIOL 424	Bioinformatics	BIOL 310.	
UD Major	BIOL 320	Principles of Evolutionary Biology	BIOL 310.	
			Total:	
		Sixth Semester (SPRING)		
D2		Social Science		
UD Major	CHEM 332	Organic Chemistry II	CHEM 331 with grade C- or better.	
UD Major	BIOL 428	Genomics	BIOL 424.	
UD Major/Elective 1	1			
			Total:	
	_	Seventh Semester (FALL)	1	_
Add'l C1 or C2*		Arts or Humanities		T
UD-B/Overlay		UD Science		+
UD Major	CHEM 441	General Biochemistry I	CHEM 332 with grade C- or better.	+
UD Major/Elective 2	CHLINI TTI	Seneral biochemiad y I	G. LIVI 332 WITH GLADE C- OF DETTET.	+
o viajoi/Liettive Z	+		Total:	
	-	Eighth Semester (SPRING)	Total.	
Code 2		US Code		
UD-C/Overlay	+	UD Arts or Humanities		+
	<del>                                     </del>			
UD-D/Overlay	+	UD Social Science		+
UD Major/Capstone	BIOL 426	Advanced Cell and Molecular Biology	BIOL 310.	
UD Major	BIOL 427	Molecular and Cell Biology Lab	BIOL 310.	1
		1siccaiai ana cen biology Lab		+
OD Major				
OD Major			Total:	

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.

cours o I b I b I c I	
CSUEB General Breadth and Graduation Requirement Checklis	
Area A (9 units): Communication in the English Language & Critical Thin (Must earn passing grade of C-/CR or better)	King
□ 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	
2 5 1.1 Hydrodi Goldinos	
☐ B2. Life Science	
□ B3. Laboratory Activity     □ B4. Quantitative Reasoning (Must earn passing grade of C-/CR o	r
better.)	
Area C (9 units): Arts & Humanities - Minimum of two different disciplin	es 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	s 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 be	tter.
Must be completed before attaining junior standing.	
☐ Second Composition  U.S. Code (American Institutions Requirement) - Two courses (6 units	c)
covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U	
Constitution), and US-3 (California State & Local Government).	
Constitution), and US-3 (California State & Local Government).  □ Code 1.	
□ Code 1. □ Code 2. Upper Division GE Requirements (9 units): Should be taken after complet	
□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet  A1, A2, A3, and B4 with a C-{CR}	ion of
□ Code 1.     □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet     A1, A2, A3, and B4 with a C- (CR)      □ UD-B. Upper-division Science Inquiry and Quantitative Reasoning	ion of
□ Code 1.     □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet     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	ion of
□ Code 1. □ Code 2. Upper Division GE Requirements (9 units): Should be taken after complet 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	ion of
□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet 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	ion of
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□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet A1, A2, A3, and B4 with a C- (CR) □ UD-B. Upper-division Science Inquiry and Quantitative Reasoning □ UD-C. Upper-division Nat OR Humanities □ UD-D. Upper-division Social Sciences Overlay Requirements (9 units): Courses may be upper or lower division GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Elective Courses Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepense Study may be used for a maximum total of 3 units elective credit. Enrollme	, and
□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet 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 GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Elective Courses Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepen	, and
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□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet 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 GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Elective Courses Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepen Study may be used for a maximum total of 3 units elective credit. Enrollm these courses requires approval by a faculty member and the Department	, and
□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet 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 GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Elective Courses Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepen Study may be used for a maximum total of 3 units elective credit. Enrollm these courses requires approval by a faculty member and the Department BIOL 330 - General Microbiology Units: 5 BIOL 398 - Internship Units: 1-4 BIOL 415 - PCR, Sequencing and Fragment Analysis Units: 3	, and
□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet A1, A2, A3, and B4 with a C- (CR) □ UD-B. Upper-division Science Inquiry and Quantitative Reasoning □ UD-C. Upper-division Nat OR Humanities □ UD-D. Upper-division Social Sciences Overlay Requirements (9 units): Courses may be upper or lower division GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)    Elective Courses Choose a minimum of 7 units of electives from the following list of courses. Note 8100.439 Co-operative Education and/or BIOL 490 Indepen Study may be used for a maximum total of 3 units elective credit. Enrollmethese courses requires approval by a faculty member and the Department BIOL 330 - General Microbiology Units: 5 BIOL 339 - General Microbiology Units: 5	, and
□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet A1, A2, A3, and B4 with a C- (CR) □ UD-B. Upper-division Science Inquiry and Quantitative Reasoning □ UD-C. Upper-division Nat OR Humanities □ UD-D. Upper-division Social Sciences Overlay Requirements (9 units): Courses may be upper or lower division GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)    Clear Courses   Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepen Study may be used for a maximum total of 3 units elective credit. Enrollme these courses requires approval by a faculty member and the Department BIOL 330 - General Microbiology Units: 5   BIOL 339 - Internship Units: 1-4   BIOL 415 - PCR, Sequencing and Fragment Analysis Units: 3   BIOL 420 - Cell and Molecular Biology Undergraduate Seminar Units: 2   BIOL 425 - Techniques in Mammalian Cell Culture Units: 3	, and
□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet 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 GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Elective Courses Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepens Study may be used for a maximum total of 3 units elective credit. Enrollmethese courses requires approval by a faculty member and the Department BIOL 330 - General Microbiology Units: 5 BIOL 398 - Internship Units: 1-4 BIOL 415 - PCR, Sequencing and Fragment Analysis Units: 3 BIOL 420 - Cell and Molecular Biology Undergraduate Seminar Units: 2 BIOL 425 - Fechiques in Mammallan Cell Culture Units: 3 BIOL 431 - Medical Microbiology Units: 5	, and
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□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet A1, A2, A3, and B4 with a C- (CR) □ UD-B. Upper-division Science Inquiry and Quantitative Reasoning □ UD-C. Upper-division Nat OR Humanities □ UD-D. Upper-division Social Sciences Overlay Requirements (9 units): Courses may be upper or lower division GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)    Elective Courses   Choose a minimum of 7 units of electives from the following list of courses. Notes 1801.0 390 Co-perative Education and/or BIOL 490 Indepensudy may be used for a maximum total of 3 units elective credit. Enrollment Security of the State of the State of Sta	, and
□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet 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 GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S) ■ Elective Courses Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepen Study may be used for a maximum total of 3 units elective redit. Enrollm these courses requires approval by a faculty member and the Department BIOL 330 - General Microbiology Units: 5 BIOL 341 - Nedical Microbiology Undergraduate Seminar Units: 2 BIOL 425 - Techniques in Mammalian Cell Culture Units: 3 BIOL 431 - Molecular Microbiology Units: 5 BIOL 433 - Molecular Microbiology Units: 3 BIOL 434 - Molecular Microbiology Units: 3 BIOL 434 - Molecular Microbiology Units: 3 BIOL 435 - Immanology Units: 3 BIOL 445 - Immanology Units: 4 BIOL 445 - Immunology Units: 3	, and
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□ Code 1. □ Code 2.  Upper Division GE Requirements (9 units): Should be taken after complet A1, A2, A3, and B4 with a C- (CR) □ UD-B. Upper-division Science Inquiry and Quantitative Reasoning □ UD-C. Upper-division Stoience Inquiry and Quantitative Reasoning □ UD-C. Upper-division Stoience Inquiry and Quantitative Reasoning □ UD-D. Upper-division Social Sciences  Overlay Requirements (9 units): Courses may be upper or lower division GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)  Flective Courses  Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepen Study may be used for a maximum total of 3 units elective credit. Enrollm these courses requires approval by a faculty member and the Department BIOL 330 - General Microbiology Units: 5 BIOL 398 - Internship Units: 1.4 BIOL 415 - PCR, Sequencing and Fragment Analysis Units: 3 BIOL 420 - Cell and Molecular Biology Undergraduate Seminar Units: 2 BIOL 425 - Techniques in Mammalian Cell Culture Units: 3 BIOL 431 - Medical Microbiology Units: 5 BIOL 434 - Molecular Microbiology Units: 5 BIOL 443 - Hometolar Microbiology Units: 3 BIOL 443 - Hometolar Microbiology Units: 3 BIOL 444 - Molecular Microbiology Units: 3 BIOL 445 - Immunology Units: 3 BIOL 445 - Immunology Units: 3 BIOL 446 - Molecular Biology Units: 4 BIOL 466 - Molecular Ecology Units: 4	, and
□ Code 1. □ Code 2. □ Code 2. Upper Division GE Requirements (9 units): Should be taken after complet A1, A2, A3, and B4 with a C- (CR) □ UD-B. Upper-division Science Inquiry and Cuntitative Reasoning □ UD-C. Upper-division Science Inquiry and Cuntitative Reasoning □ UD-D. Upper-division Sciences Overlay Requirements (9 units): Courses may be upper or lower division GE or major □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S)    Elective Courses   Choose a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepensures. Once a minimum of 7 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Indepensures. Once and Microbiology Units: 1 a designation of the Course of	, and

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