Doguirement A	Course	Cauran Title	Dravanuic't	Date.
Requirement Area	Course	Course Title First Semester (FALL)	Prerequisites	Units
E	SCI 130	Connecting to STEM Majors		:
A1		Oral Communication		;
B1/LD Major	CHEM 111	General Chemistry I		3
B3/LD Major	MATH 130	General Chemistry Lab 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	:
B4/LD Major F	MAIH 130	Calculus I Ethnic Studies	better).	3
		Etime Statics	Total:	1
A2		Second Semester (SPRING) Written Communication		3
C1		Arts		3
			MATH 130 with grade C- or	
LD Major	MATH 131	Calculus II	better. CHEM 111 with grade C- or	3
LD Major	CHEM 112	General Chemistry II	better.	!
		=11.10 . (=11)	Total:	14
		Third Semester (FALL) Lifelong Leanring and Self-		
E		Development		:
A3		Critical Thinking		3
UD Major	CHEM 331	Organic Chemistry I	CHEM 112 with grade C- or better	
OD Wilajoi	CHEW 551	Principles of Cell and Molecular	better	
B2/LD Major	BIOL 140A	Biology		!
			Total:	14
		Fourth Semester (SPRING)		
Second Composition	ENGL 200 or PHYS 230		DIO: 4404 - 111 1 - 0	3
LD Major	BIOL 140B	Principles of Organismal Biology	BIOL 140A with grade C- or better.	!
LD Major	CHEM 220	Quantitative Analysis	CHEM 112 with grade C- or better.	
LID Mains	CHEM 332	Oi- Chamista II	CHEM 331 with grade C- or	
UD Major	CHEIVI 332	Organic Chemistry II	better. Total:	1
	•			
Sustainability Overlay/LD Major	GEOL 100	Fifth Semester (FALL)  Earth Systems Science		
C2				3
UD Major	CHEM 441	Biochemistry I	CHEM 332 with grade C- or better.	
OD Major	CHEW TIE	Sidericinistry i	Detten.	
B3/LD Major	PHYS 125	Principles of Physics I	T	
		Sixth Semester (SPRING)	Total:	15
		Sixth Schicster (Si kinto)	CHEM 441 with grade C- or	
UD Major	CHEM 442	Biochemistry II	better.	4
UWR				
LD Major D1/Code1	PHYS 126	Principles of Physics II	PHYS 125	4
DI/Code1				
			Total:	
		Seventh Semester (FALL)	IUtal:	14
D2/Code 2		The compact (File)		3
UD Major	CHEM 443	Riochamistry Laboratory I		
UD Major UD Major	CHEM 443 CHEM 350	Biochemistry Laboratory I Biophysical Chemistry		3
UD-B/Overlay		., .,		3
Add'l C1 or C2				3
			Total:	15
		Eighth Semester (SPRING)	CHEM 332 with grade C- or	
UD Major	CHEM 470	Chemical Literature	better.	:
UD Major	CHEM 425	Environmental Chemistry	CHEM 331 with grade C- or better.	
UD-D/Overlay		,		3
UD C/UD Maria	DUIL 225	Dhilasanhu af Cai	Completion of GE areas A1,	
UD-C/UD Major UD Major	PHIL 335 TED 301	Philosophy of Science Exploring Education	A2, A3 and B4.	
ויסס iviajUl	150 301	EXPIONING EQUEATION	Total:	14
	A. Control of the Con		i .	

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.

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
∐ 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
□ 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).
□ 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-B. Upper-division Science Inquiry and Quantitative Reasoning ☐ UD-C.Upper-division Arts OR Humanities
UD-C.Upper-division Arts OR Humanities
□ UD-C.Upper-division Arts OR Humanities □ UD-D. Upper-division Social Sciences
□ UD-C.Upper-division Arts OR Humanities     □ UD-D. Upper-division Social Sciences     Overlay Requirements (9 units): Courses may be upper or lower division,
□ 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
□ 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)
□ 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
□ 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)
□ 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 (SI) □ Sustainability (S)
□ 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 (SI) □ Sustainability (5)  Concentration Courses
□ 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 (SI) □ Sustainability (S)  Concentration Courses  The Bachelor of Arts degree, major in Biochemistry with a concentration in
□ 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)  Concentration Courses  The Bachelor of Arts degree, major in Biochemistry with a concentration in Chemistry Education, is designed for students interested in a career teaching
□ 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 (SI)  □ Sustainability (S)  Concentration Courses  The Bachelor of Arts degree, major in Blochemistry with a concentration in chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as
□ 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 (SI) □ Sustainability (S)  Concentration Courses  The Bachelor of Arts degree, major in Biochemistry with a concentration in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as biochemists in an industrial setting. This program will prepare graduates to
□ 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)  Concentration Courses  The Bachelor of Arts degree, major in Biochemistry with a concentration in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as biochemists in an industrial setting. This program will prepare graduates to enter a single subject credential program.
□ 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)  Concentration Courses  The Bachelor of Arts degree, major in Biochemistry with a concentration in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as biochemists in an industrial setting. This program will prepare graduates to enter a single subject credential program.  CHEM 425 - Environmental Chemistry Units: 4
□ 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)  Concentration Courses  The Bachelor of Arts degree, major in Biochemistry with a concentration in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as biochemists in an industrial setting. This program will prepare graduates to enter a single subject credential program.  CHEM 425 - Environmental Chemistry Units: 4  GEOL 100 - Earth Systems Science Units: 4; G.E./G.R. Area: B1, B3;
□ 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 (SI) □ Sustainability (S)  Concentration Courses  The Bachelor of Arts degree, major in Biochemistry with a concentration in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as biochemists in an industrial setting. This program will prepare graduates to enter a single subject credential program.  CHEM 425 - Environmental Chemistry Units: 4 GEO1 100 - Earth Systems Science Units: 4; G.E./G.R. Area: B1, B3; Sustainability
□ 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)  Concentration Courses  The Bachelor of Arts degree, major in Biochemistry with a concentration in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as biochemists in an industrial setting. This program will prepare graduates to enter a single subject credential program.  CHEM 425 - Environmental Chemistry Units: 4  GEOL 100 - Earth Systems Science Units: 4; G.E./G.R. Area: B1, B3;

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