Requirement Area	Course	Course Title First Semester (FALL)	Prerequisites	Units
E	SCI 130	Connecting to STEM Majors		:
A1		Oral Communication		
LD Major	CHEM 111	General Chemistry I		!
B1/LD Major	CHEM 111	General Chemistry I	_	-
B3/LD Major F	CHEM 111L	General Chemistry Lab I Ethnic Studies		- :
		Etimic Studies	Total:	17
		Second Semester (SPRING)		
A2 C1		Written Communication Arts		3
CI		AIG	MATH 130	
			with grade C-	
LD Major	MATH 131	Calculus II	or better.	-
			CHEM 111 with grade C- or	
LD Major	CHEM 112	General Chemistry II	better.	3
LD Major	CHEM 112L	General Chemistry II Lab		-
		T1: 10 . (5011)	Total:	14
E		Third Semester (FALL) Lifelong Learning and Self-Development		:
A3		Critical Thinking		
B2		Life Science		
C2		Humanities	0.054 : : : :	- 3
			CHEM 112 with grade C-	
UD Major	CHEM 331	Organic Chemistry I	or better.	
			Total:	15
		Fourth Semester (SPRING)		
	Ι -			
Second Compostion		Second Comp		
compositori			CHEM 331 with	
	L		grade C- or	
UD Major	CHEM 332	Organic Chemistry II	better. CHEM 112	
			with grade C-	
LD Major	CHEM 220	Quantitative Analysis	or better.	4
Elective			T-A-I	15
		Fifth Semester (FALL)	Total:	15
		Fitti Semester (FALL)	Satisfactory	
			score of 78 or	
			higher on	
			Math Proficiency	
			Assessment or	
B1/B3	PHYS 125	Principles of Physics I	MATH 120	4
			Completion of	
			GE areas A1, A2, A3, B1 and	
UD-B/Overlay		UD Science	B4.	3
			CHEM 230 or	
			CHEM 332, both with	
			grade C- or	
UD Major	CHEM 340	Survery of Biochemistry	better.	3
UWR				3
Elective			Total:	16
			Iotal:	10
		Sixth Semester (SPRING)		
			CHEM 230 or	
			CHEM 332, both with	
			grade C- or	
UD Major	CHEM 320	Bioanalytical and Forensic Laboratory	better.	3
UD Major	PHYS 126	Principles of Physics II	PHYS 125.	4
D1/Code 1	-	Social Science/US Code		3
Add'l C1 or C2*		Art or Humanities		2
Elective			Total:	15
			1.044	
		Seventh Semester (FALL)		
Code 2		US Code		3
D2		Social Science		-
UD Major	-	Chemistry elective	CHEM 112,	- 3
			MATH 131,	
			and PHYS 126	
			or PHYS 136,	
UD Major	CHEM 350	Biophysical Chemistry	all with grade C- or better.	3
elective	2		o. setter.	3
			Total:	15
		Eighth Semester (SPRING)		_
			CHEM 332 with	
UD Major	CHEM 470	Chemical Literature	grade C- or better.	1
UD Major	2IVI 4/U	Chemistry elective	better.	-
		,,	Completion of	
			GE areas A1,	
UD-D/Overlay		UD Social Science	A2, A3, B1 and B4.	
ob-b/ Overlay	 	OD Social Science	Completion of	- 1
			GE areas A1,	
	1	İ	A2, A3, B1 and	l
		UD Art or Humanities	B4.	
UD-C/Overlay Elective		UD Art or Humanities		11

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.

Area	B General Breadth and Graduation Requirement Checklist A (9 units): Communication in the English Language & Critical
	Thinking (Must earn passing grade of C-/CR or better)
	MM 100 or 104, MLL 111
	GL 101, 102, or 104
□ A3. PH	ea B (9 units) : Scientific Inquiry & Quantitative Reasoning
	sical Science
☐ B2. Life	
☐ B3. Lab	poratory Activity
☐ B4. Qu	antitative 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. Art	
C2. Hui	manities
□ *Additi	ional Lower-division Area C Course in Arts (C1) or Humanities (C2)
	units) : Social Sciences - Minimum of two different disciplines as
	designated by course prefix (e.g., ANTH, ECON, POSC)
□ D1.	
□ D2.	To the state of th
	Area E (3 units): Lifelong Learning and Self-Development
E.	Area F (3 units): Ethnic Studies
ПЕ	Area i (5 units). Etimic Studies
Second Co	omposition: Requires completion of GE A2 with a C-/CR or bette Must be completed before attaining junior standing.
□ Second	I Composition
	University Writing Requirement
UWR	de (American Institutions Requirement) - Two courses (6 units)
	three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S.
Cor	stitution), and US-3 (California State & Local Government).
	nstitution), and US-3 (California State & Local Government).
	nstitution), and US-3 (California State & Local Government).
	nstitution), and US-3 (California State & Local Government).
□ Code 1 □ Code 2	stitution), and US-3 (California State & Local Government)
□ Code 1 □ Code 2	nstitution), and US-3 (California State & Local Government) er Division GE Requirements (9 units): Should be taken after
□ Code 1 □ Code 2 Uppe	stitution), and US-3 (California State & Local Government). - r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)
□ Code 1 □ Code 2 Upp	stitution), and US-3 (California State & Local Government).
□ Code 1 □ Code 2 Upp	nstitution), and US-3 (California State & Local Government). - Privision GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C (CR)
□ Code 1 □ Code 2 Upp	stitution), and US-3 (California State & Local Government).
□ Code 1 □ Code 2 Uppr	stitution), and US-3 (California State & Local Government).
□ Code 1 □ Code 2 Uppr	stitution), and US-3 (California State & Local Government).
□ Code 1 □ Code 2 Uppr □ UD-B. I □ UD-C.U	. - Privision GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) Upper-division Science Inquiry and Quantitative Reasoning per-division Arts OR Humanities Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division.
□ Code 1 □ Code 2 Uppr □ UD-B. I □ UD-C.U	
Code 1 Code 2 Uppn UD-B. I	
Code 1 Code 2 Uppr UD-B. (UD-C.U	er Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) Upper-division Science Inquiry and Quantitative Reasoning Ipper-division Arts OR Humanities Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division, and GE or major
□ Code 1 □ Code 2 □ Uppn □ UD-B. U □ UD-C.U □ UD-D. U □ UD-D. U	representation of Englishments (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C (CR) Upper-division Science Inquiry and Quantitative Reasoning proper-division Arts OR Humanities Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division, and GE or major
□ Code 1 □ Code 2 □ Uppn □ UD-B. U □ UD-C.U □ UD-D. U □ UD-D. U	
Code 1 Code 2 Uppi UD-B. I UD-C.U UD-C.U UD-C.U UD-C.U UD-C.U Social J Sustain	stitution), and US-3 (California State & Local Government). - Provision GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) Upper-division Science Inquiry and Quantitative Reasoning Upper-division Arts OR Humanities Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division, and GE or major ty (Div) ustice (SI) ability (S) Elective Courses
Code 1 Code 2 Uppi UD-8. 1 UD-C.U UD-C.U Overlay I Diversity Sustain	stitution), and US-3 (California State & Local Government). - Provision GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) Upper-division Science Inquiry and Quantitative Reasoning Upper-division Arts OR Humanities Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division, and GE or major ty (Div) ustice (SI) ability (S) Elective Courses
Code 1 Code 2 Uppn UD-B. I. UD-C.U UD-D. I. UD-D. I. UD-D. I. Social J. Sustain	- Privision GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C (CR) Upper-division Science Inquiry and Quantitative Reasoning proper-division Arts OR Humanities Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division, and GE or major ty (Div) ustice (SI) ability (S) Elective Courses not choosing the concentration in Chemistry Education coursewor plete a minimum of six (6) units from the following:
CHEM 41C	re Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) Upper-division Science Inquiry and Quantitative Reasoning Ipper-division Arts OR Humanities Upper-division Social Sciences Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division, and GE or major ty (Div) Iustice (SI) ability (S) Elective Courses not choosing the concentration in Chemistry Education coursewor plete a minimum of six (6) units from the following:
CHEM 41C	er Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C (CR) Upper-division Science Inquiry and Quantitative Reasoning Ipper-division Arts OR Humanities Upper-division Social Sciences Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division, and GE or major try (Div) ustice (S) uability (S) Elective Courses not choosing the concentration in Chemistry Education coursewor plete a minimum of six (6) units from the following:
CHEM 4112 Chem 412 re Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) Upper-division Science Inquiry and Quantitative Reasoning Ipper-division Arts OR Humanities Upper-division Social Sciences Upper-division Social Sciences Requirements (9 units): Courses may be upper or lower division, and GE or major ty (Div) Iustice (SI) ability (S) Elective Courses not choosing the concentration in Chemistry Education coursewor plete a minimum of six (6) units from the following:	

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