	Zegree. Diological Science	es, B.A.: Biology Education Concentration		
Requirement Area	Course	Course Title	Prerequisites	Units
	1	First Semester (FALL)		
E	BIOL 130	Connecting to Biology		2
A1	COMM 100	Communication		3
B4/LD Major	MATH 120	Precalculus		3
C1		Arts		3
D1/Code 1		Social Science/US Code	Total:	3 14
		Second Semester (SPRING)	IOtal:	14
	-	Second Semester (SPRING)		
E		Lifelong Learning and Self-Development		1
A2		Written Communication		3
A3		Critical Thinking		3
C2		Humanities		3
B2/LD Major	BIOL 140A	Principles of Cell and Molecular Biology		5
			Total:	15
	T	Third Semester (FALL)		
LD Major	BIOL 140B	Principles of Organismal Biology	BIOL 140A with grade C- or better.	5
Sustainability Overlay/LD				
Major	GEOL 100	Earth Systems Science		4
B1/LD Major	CHEM 111	General Chemistry I		3
B3/LD Major	CHEM 111L	General Chemistry Lab I		2
				_
UD Major	TED 301	Exploring Education		3
			Total:	17
		Fourth Semester (SPRING)	CUENA 444ith === d= C	
B3/LD Major	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	5
D3/ LD IVIAJOI	CHEWITIZ	General Chemistry II	or better.	
LD Major	PHYS 115	Elementary Physics		3
			Completion of GE area	
UD Major	STAT 303	Statistics for Biology	B4.	3
Second Composition	ENGL 200 or PHYS 230			3
		Fifth Commenter (FALL)	Total:	14
	T	Fifth Semester (FALL)	CHEM 112 with grade C-	
UD Major	CHEM 230	Survey of Organic Chemistry	or better.	5
,		, , ,	BIOL 140B with grade C-	
UD Major	BIOL 370	Animal Physiology	or better and CHEM 112.	4
			Completion of GE areas	
UD-C/Major Concentration	PHIL 371	Concentration	A1, A2, A3 and B4.	3
F		Ethnic Studies		3
			Total:	15
	1	Sixth Semester (SPRING)		
Add'l C1 or C2*		Arts or Humanities		3
UD Major	BIOL 310	Canatia Anallysis I	BIOL 140B with a grade	4
UD Major	BIOL 310	Genetic Anallysis I	of C- or better. BIOL 140B, MATH 115,	4
UD Major	BIOL 350	Ecology	STAT 303.	4
UWR		US Code		3
			Total:	14
		Seventh Semester (FALL)		
D2/Code 2		Social Science		3
UD-C/Overlay		UD Arts or Humanities		3
UD Major	BIOL 330	General Microbiology	BIOL 140B.	5
UD Major	SCI 308	Hands On Science Teaching	Department consent.	1
UD Major/Elective 1				3
			Total:	15
		Eighth Semester (SPRING)		
			Completion of GE areas	
UD-B/Overlay		UD Science	A1, A2, A3 and B4.	3
UD D/O		LID Social Saisson	Completion of GE areas	-
UD-D/Overlay		UD Social Science	A1, A2, A3 and B4.	3
UD Major	BIOL 320	Evolutionary Biology	BIOL 310.	3
UD Concentration Elective	BIOL 426, 430, 469, or 488	Concentration	5101 510.	3-4
	1.52 120, 130, 405, 01 486		1	3-4
Elective				
Elective			Total:	16

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: 4/1/2024

	SUEB 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)
□ Δ1 ·	COMM 100 or 104, MLL 111
	ENGL 101, 102, or 104
	PHIL 100
	Area B (9 units) : Scientific Inquiry & Quantitative Reasoning
□ B1.	Physical Science
	Life Science
	Laboratory Activity
	Quantitative Reasoning (Must earn passing grade of C-/CR or better.)
	(9 units): Arts & Humanities - Minimum of two different disciplines a designated by course prefix (e.g., ART, THEA, MUS)
☐ C1.	Arts
	Humanities
	ditional Lower-division Area C Course in Arts (C1) or Humanities (C2)
	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.	
Secor	nd Composition: Requires completion of GE A2 with a C-/CR or better.
	Must be completed before attaining junior standing.
□ Seco	and Composition
	University Writing Requirement
	_
□ uw	
U.S	6. Code (American Institutions Requirement) - Two courses (6 units)
	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S.
cove	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).
Cove	aring three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).
□ Cod	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1. e 2.
□ Cod	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1. e 2. r Division GE Requirements (9 units): Should be taken after completion
Cod Cod Upper	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1. e 2. c Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)
Cod Cod Upper	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1. e 2. r Division GE Requirements (9 units): Should be taken after completion
Cove	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1. e 2. Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning
Cove	aring three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1. e 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) B. Upper-division Science Inquiry and Quantitative Reasoning C. Upper-division Arts OR Humanities
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Covi	aring three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1. e 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) B. Upper-division Science Inquiry and Quantitative Reasoning C. Upper-division Arts OR Humanities D. Upper-division Social Sciences ty Requirements (9 units): Courses may be upper or lower division, an GE or major
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COVID	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 2.  **Polivision GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences  by Requirements (9 units): Courses may be upper or lower division, an GE or major  crisity (Div)  al Justice (SI)  alnability (S)
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COVIDED COVIDO COVIDED COVIDED COVIDED COVIDED COVIDED COVIDED COVIDED COVIDED	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 2.  Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences by Requirements (9 units): Courses may be upper or lower division, an GE or major  resity (Div)  al Justice (SI)  ainability (S)  Biology Education Concentration  r Education and Statistics lowing 10 units of interdisciplinary upper-division coursework is div. Note: PHIL 371 will satisfy GE Area C  21 - Philosophy of Education Units: 3 ; G.E./G.R. Area: UD-C
COVIDED COVER COVIDED	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 2.  **Polivision GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences  by Requirements (9 units): Courses may be upper or lower division, an GE or major  resity (Div)  al Justice (SI)  ainability (S)  Biology Education Concentration  r Education and Statistics  lowing 10 units of interdisciplinary upper-division coursework is division to the period of the Course of
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COVID- COVERSION OF TRANSPORT O	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1. e 1. e 2. Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences By Requirements (9 units): Courses may be upper or lower division, an GE or major  Privity (Div)  al Justice (SI)  alinability (S)  Biology Education Concentration  r Education and Statistics  lowing 10 units of interdisciplinary upper-division coursework is division; Note: PHIL 371 will satisfy GE Area C  11- Philosophy of Education Units: 3; G.E./G.R. Area: UD-C  13- Hands-On Science Teaching Units: 1  13- Statistical Methods in Biology Units: 3
COVIDED COVER COVIDED COVER COVIDED COVER COVIDED COVI	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 1.  e 2.  **Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences  to Requirements (9 units): Courses may be upper or lower division, an GE or major  resity (Div)  al Justice (SI)  ainability (S)  Biology Education Concentration  reducation and Statistics  lowing 10 units of interdisciplinary upper-division coursework is decirated. Note: PHIL 371 will satisfy GE Area C  71. Philosophy of Education Units: 3; G.E./G.R. Area: UD-C  1- Hands-On Science Teaching Units: 1  3- Statistical Methods in Biology Units: 3  1- Introduction to Education Units: 3  1- Introduction to Education Units: 3
COVIDED TO CONCEST OF THE STATE	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 2.  Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences  BY Requirements (9 units): Courses may be upper or lower division, an GE or major  Persity (Div)  al Justice (SI)  ainability (S)  Biology Education Concentration  r Education and Statistics  lowing 10 units of interdisciplinary upper-division coursework is div. Note: PHIL 371 will satisfy GE Area C  11 - Philosophy of Education Units: 3; G.E./G.R. Area: UD-C  13 - Hands-On Science Faaching Units: 1  20 - Statistical Methods in Biology Units: 3  1- Introduction to Education Units: 3  stration Electives
COVIDED TO STATE 30 SCI 308 STAT 33 TED 30 COONCER CONCERC CON	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 1.  e 2.  Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences  In Requirements (9 units): Courses may be upper or lower division, an GE or major  resity (Div)  al Justice (SJ)  alnability (S)  Biology Education Concentration  r Education and Statistics  lowing 10 units of interdisciplinary upper-division coursework is divided: Note: PHIL 371 will satisfy GE Area C  71 - Philosophy of Education Units: 3; G.E./G.R. Area: UD-C  1- Hands-On Science Teaching Units: 1  33 - Statistical Methods in Biology Units: 3  1 - Introduction to Education Units: 3  tration Electives  1- one (1) of the following for 3-4 units:
COVIDED TO SOLUTION OF THE PROPERTY OF THE PRO	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 1.  e 2.  Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences  ny Requirements (9 units): Courses may be upper or lower division, an GE or major  resity (Div)  al Justice (SI)  aimability (S)  Biology Education Concentration  r Education and Statistics  lowing 10 units of interdisciplinary upper-division coursework is di: Note: PHIL 371 will satisfy GE Area C  71. Philosophy of Education Units: 3; G.E./G.R. Area: UD-C  1.4 Hands-On Science Teaching Units: 1  1.4 Introduction to Education Units: 3  1. Introduction to Education Units: 3
COVER	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 1.  e 2.  **Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences by Requirements (9 units): Courses may be upper or lower division, an GE or major  **rsity (Div)  al Justice (SI)  ainability (S)  **Biology Education Concentration**  **r Education and Statistics lowing 10 units of interdisciplinary upper-division coursework is division; and Statistics lowing 10 units of interdisciplinary upper-division coursework is division. Science Teaching Units: 3  30 - Statistical Methods in Biology Units: 3  1 - Introduction to Education Units: 3  1 - Introduction Units: 3
COVE COVER C	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).  e 1.  e 1.  e 2.  Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)  B. Upper-division Science Inquiry and Quantitative Reasoning  C. Upper-division Arts OR Humanities  D. Upper-division Social Sciences  In Requirements (9 units): Courses may be upper or lower division, an GE or major  resity (Div)  al Justice (SJ)  alnability (S)  Biology Education Concentration  r Education and Statistics  lowing 10 units of interdisciplinary upper-division coursework is divide: PHIL 371 will satisfy GE Area C  71 - Philosophy of Education Units: 3; G.E./G.R. Area: UD-C  1- Hands-On Science Teaching Units: 1  33 - Statistical Methods in Biology Units: 3  1- Introduction to Education Units: 3  tration Electives  10 - Microbial Physiology and Metabolism Units: 3  39 - Conservation Biology Units: 4

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