	Degree: Biological Sciences, B.S.: Microbiology and Biomedical Lab Sciences Concentration				
Requirement Area	Course	Course Title	Prerequisites	Units	
	_	First Semester			
E	GS 101A	Foundations of Success I		- :	
A1	COMM 100	Communication			
			One from the following: Satisfactory score of		
			78 or higher on Mathematics Placement		
D4/LD Maior	NAATU 120	Calaulus I	Exam, MATH 120 or MATH 125 (either course with grade C- or better).	I	
B4/LD Major C1	MATH 130	Calculus I	with grade C- or better).	3	
D1/CODE 1				3	
DI/CODE I			Total:	14	
		Second Semester	rotai.		
E	GS 101B	Foundations of Success II			
A2	ENGL 102			:	
C2				:	
B2/LD Major	BIOL 140A	Principles of Cell and Molecular Biology			
A3	PHIL 100	Workshop in Critical Thinking		- 3	
		71:10	Total:	15	
Г	1	Third Semester		T .	
E LD Maior	DIOL 140D	Dringings of Organizated District	DIOL 110A with and to Combat	1	
LD Major	BIOL 140B	Principles of Organismal Biology	BIOL 140A with grade C- or better.		
D2	+			3	
D1/ID Major	CHEM 111	General Chemistry I		5	
B1/LD Major	CUCINI III	General Chemistry I	Total:		
		Fourth Semester	Total:	14	
Add'l C1 or C2*		Fourth Semester			
Add TCT OF CZ				3	
Writing II/WID (2nd					
Comp)	ENGL 200 or PHYS 230] 3	
B3/LD Major	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	5	
UD Major	BIOL 310	Genetic Analysis I	BIOL 140A.		
- Triajoi	5.01310	Centerio / marysis i	5102 1 10711		
			Total:	15	
		Fifth Semester		<u> </u>	
D3] 3	
			Satisfactory score of 78 or higher on Math		
LD Major	PHYS 125	Principles of Physics I	Proficiency Assessment or MATH 120.	4	
UD Major	BIOL 330	General Microbiology			
UD Major	CHEM 331	Organic Chemistry I	CHEM 112 with grade C- or better.	5	
,		,	Total:	17	
		Sixth Semester	•		
UD Major/Elective 1	BIOL			3	
LD Major	PHYS 126	Principles of Physics II	PHYS 125.		
UD Major	CHEM 332	Organic Chemistry II			
Code 2				3	
			Total:	15	
		Seventh Semester	•		
			CHEM 230 or CHEM 332, both with grade C-		
UD Major	CHEM 340	Survey of Biochemistry	or better.] 3	
UD Major	BIOL 320	Evolutionary Biology	BIOL 310.		
UD Major/Elective 2		, 5,		:	
UD Major Elective 3					
B6/Overlay			Completion of GE areas A1, A2, A3 and B4.		
,			Total:	15	
		Eighth Semester	1	`	
C4/Overlay	T T	Lightin Jennester	Completion of GE areas A1, A2, A3 and B4.] :	
D4/Overlay			Completion of GE areas A1, A2, A3 and B4.		
UD Major/Elective 4			Completion of GL areas A1, A2, A5 allu B4.		
•				;	
UD Major/Elective 5	 	Missabial Dhysialagus and Diaghagusista	BIOL 330, and CHEM 340 or CHEM 441.		
IID Major/Canatana	10101 /130				
UD Major/Capstone	BIOL 430	Microbial Physiology and Biochemistry	Total:	1	

Consider the Children Decision of Consider the			
General Education & University Requirements - Suggested Courses			
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 three 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 (9 units): Social Sciences - Minimum of three different disciplines as			
designated by course prefix (e.g., ANTH, ECON, POSC)			
□ D1.			
□ D2.			
□ D3.			
Area E (3 units): Lifelong Learning and Self-Development			
<u>□ E.</u>			
Second Composition: Requires completion of GE A2 with a C-/CR or better. Must			
be completed before attaining junior standing.			
□ Writing II.			
University Writing Skills Requirement			
☐ UWSR. Writing Skills Test (WST) or First and/or Second Tier Courses			
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)			
☐ B6. Upper-division Science Inquiry and Quantitative Reasoning			
□ C4.Upper-division Arts OR Humanities			
- Copper amount to Ort Hamanaoo			
D4 Upper division Social Sciences			
□ D4. Upper-division Social Sciences □ Overlay Requirements (9 units). Courses may be upper or lower division, and GE			
or major			
□ Diversity (Div)			
□ Diversity (Div) □ Social Justice (SJ)			