First Semester (FALL)	De	oc. D.o.ogicui Jelelle	es, B.S.: Microbiology and Biomedical La		
E BIOL 130 Connecting to Biology A1 COMM 100 Communication One from the following: Satisfactory score of 78 or higher on Mathematics Placement 278 or higher on Mathematics Placement Carn, MATH 120 or MATH 125 (lether course with grade C- or better). C1 A75 Social Science/US Code Total: 1 Second Semester (SPRING) Written Communication Very Carnel of 188 Very	Requirement Area	Course	Course Title	Prerequisites	Units
A1 COMM 100 Communication			First Semester (FALL)		
Ba/LD Major	E	BIOL 130	Connecting to Biology		
### BA/LD Major ### MATH 130	A1	COMM 100	Communication		
### BA/LD Major					
MAP Major					
Arts	RA/LD Major	MATH 130	Calculus I		
		WATT 150		course with grade e or better).	
	51,00521		Social Science, 65 code	Total:	1
A2			Second Semester (SPRING)		
Humanities					Т
Major Side 140A	A2		Written Communication		
A3	C2		Humanities		
Third Semester (FALL) E	B2/LD Major	BIOL 140A	Principles of Cell and Molecular Biology		
Third Semester (FALL) E	A3	PHIL 100	Workshop in Critical Thinking		
Third Semester (FALL) E					
E Lifelong Learning and Self Development Display Display BIOL 1408 Principles of Organismal Biology F CHE 111 General Chemistry Self, D. Major CHEM 111 General Chemistry FOurth Semester (SPRING) Add'l C1 or C2* Arts or Humanities Second Composition BIOL 310 General Chemistry DI Major BIOL 310 General Chemistry Display BIOL 310 Genetic Analysis Display Genetic Analysis Display Genetic Analysis Display Genetic Analysis D				Total:	1-
LD Major BIOL 140B Principles of Organismal Biology BIOL 140A with grade C- or better. F Ethnic Studies B1/LD Major CHEM 111 General Chemistry I General Chemistry I General Chemistry I Total: 1 Add'l C1 or C2*		_			
Ethnic Studies BJ/LD Major CHEM 1111 General Chemistry I B3/LD Major CHEM 1111 General Chemistry Lab I Total: 1 Total:	E	1			-
BJ/LD Major	LD Major	BIOL 140B		BIOL 140A with grade C- or better.	!
Social Composition Since Seventh Semester (SPRING)	F	1			
Fourth Semester (SPRING) Fourth Semester (SPRING) Arts or Humanities Second Composition BiOL 200 or PHYS 230 BiOL 310 General Chemistry II CHEM 111 with grade C- or better. Total: 1 Fifth Semester (FALL) DD Major BiOL 310 Genetic Analysis I Fifth Semester (FALL) DD Major PHYS 125 Principles of Physics I DD Major BiOL 330 General Microbiology DD Major CHEM 331 Organic Chemistry I Sixth Semester (SPRING) DUD Major CHEM 332 Organic Chemistry I DD Major CHEM 332 Organic Chemistry I Sixth Semester (SPRING) DD Major CHEM 332 US Code DD Major CHEM 332 Organic Chemistry II COde 2 US Code Total: 1 CHEM 340 Survey of Biochemistry CHEM 340 Survey of Biochemistry DD Major CHEM 340 DD Major CHEM 341 DD Major CHEM 340 DD Major CHEM					
Fourth Semester (SPRING) Add'l C1 or C2* Second Composition Bi/LD Major CHEM 112 General Chemistry II CHEM 111 with grade C- or better. Total: 1 Social Science Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120. UD Major BIOL 330 General Microbiology UD Major BIOL 330 General Microbiology UD Major CHEM 331 Organic Chemistry I Sixth Semester (SPRING) Sixth Semester (SPRING) DU Major PHYS 125 Principles of Physics I Sixth Semester (SPRING) Total: 1 Organic Chemistry I CHEM 112 with grade C- or better. Total: 1 Sixth Semester (SPRING) UD Major CHEM 332 Organic Chemistry II Du Major CHEM 332 Organic Chemistry II Code 2 US Code Total: 1 CHEM 332 Organic Chemistry II Code 2 US Code Total: 1 Seventh Semester (FALL) CHEM 332 Organic Chemistry II CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II COde 2 UD Major CHEM 332 Organic Chemistry II Du Major Chemistry II CHEM 332 Organic Chemistry II Du Major Chemistry II CHEM 332 UD Major Chemistry II CHEM 333 Organic Chemistry II CHEM 333 Organic Chemistry II CHEM 333 Organic Chemistry II Du Major Chemistry II CHEM 333 Organic Chemistry II CHEM 332 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 CHEM 312 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 CHEM 312 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 CHEM 312 CHEM 312 CHEM 312 CHEM 312 CHEM 320 CHEM 312 CHEM 312 CHEM 320 CHE	B3/LD Major	CHEM 111L	General Chemistry Lab I		
Fourth Semester (SPRING) Add'l C1 or C2* Second Composition Bi/LD Major CHEM 112 General Chemistry II CHEM 111 with grade C- or better. Total: 1 Social Science Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120. UD Major BIOL 330 General Microbiology UD Major BIOL 330 General Microbiology UD Major CHEM 331 Organic Chemistry I Sixth Semester (SPRING) Sixth Semester (SPRING) DU Major PHYS 125 Principles of Physics I Sixth Semester (SPRING) Total: 1 Organic Chemistry I CHEM 112 with grade C- or better. Total: 1 Sixth Semester (SPRING) UD Major CHEM 332 Organic Chemistry II Du Major CHEM 332 Organic Chemistry II Code 2 US Code Total: 1 CHEM 332 Organic Chemistry II Code 2 US Code Total: 1 Seventh Semester (FALL) CHEM 332 Organic Chemistry II CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II Code 2 UD Major CHEM 332 Organic Chemistry II COde 2 UD Major CHEM 332 Organic Chemistry II Du Major Chemistry II CHEM 332 Organic Chemistry II Du Major Chemistry II CHEM 332 UD Major Chemistry II CHEM 333 Organic Chemistry II CHEM 333 Organic Chemistry II CHEM 333 Organic Chemistry II Du Major Chemistry II CHEM 333 Organic Chemistry II CHEM 332 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 CHEM 312 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 CHEM 312 Organic Chemistry II CHEM 312 Organic Chemistry II CHEM 312 CHEM 312 CHEM 312 CHEM 312 CHEM 312 CHEM 320 CHEM 312 CHEM 312 CHEM 320 CHE					
Arts or Humanities Second Composition ENGL 200 or PHYS 230 General Chemistry II CHEM 111 with grade C- or better. UD Major BIOL 310 Genetic Analysis I BIOL 140B with a grade of C- or better. Total: 1 Fifth Semester (FALL) D2 Social Science Satisfactory sore of 78 or higher on Math Proficiency Assessment or MATH 120. UD Major PHYS 125 Principles of Physics I Proficiency Assessment or MATH 120. UD Major CHEM 331 Organic Chemistry I CHEM 112 with grade C- or better. Total: 1 Sixth Semester (SPRING) UD Major CHEM 332 Organic Chemistry II PHYS 125. UD Major PHYS 126 Principles of Physics II PHYS 125. UD Major CHEM 332 Organic Chemistry II CHEM 120. UD Major CHEM 332 Organic Chemistry II CHEM 120. UD Major CHEM 332 Organic Chemistry II CHEM 120. UD Major CHEM 332 Organic Chemistry II CHEM 1332. CHEM 332 Organic Chemistry II CHEM 333. UD Major CHEM 332 Organic Chemistry II CHEM 130. UD Major CHEM 340 Survey of Biochemistry II CHEM 130. Or CHEM 332, both with grade C- or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major Elective 2 UD Major Elective 3 UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD Condition of GE areas A1, A2, A3 and B4. UD ON Major/Elective 4 UD Major/Elective 5 UD Major/E				Total:	14
Second Composition ENGL 200 or PHYS 230 B3/LD Major CHEM 112 General Chemistry CHEM 111 with grade C- or better.			Fourth Semester (SPRING)		_
Second Composition ENGL 200 or PHYS 230 B3/LD Major CHEM 112 General Chemistry CHEM 111 with grade C- or better.					
Second Composition ENGL 200 or PHYS 230 B3/LD Major CHEM 112 General Chemistry CHEM 111 with grade C- or better.	Add'l C1 or C2*		Arts or Humanities		
B3/LD Major CHEM 112 General Chemistry II CHEM 111 with grade C- or better. UD Major BIOL 310 Genetic Analysis I BIOL 140B with a grade of C- or better. Total: 1 Fifth Semester (FALL) D2 Social Science Subsidiation Phys 125 Principles of Physics I Proficiency Assessment or MATH 120. UD Major BIOL 330 General Microbiology UD Major CHEM 331 Organic Chemistry I CHEM 112 with grade C- or better. Total: 1 Sixth Semester (SPRING) UD Major PHYS 126 Principles of Physics II PHYS 125. UD Major CHEM 332 Organic Chemistry II Chemistry		ENGL 200 or PHVS 230	7 it is of Hamanities		
UD Major BIOL 310 Genetic Analysis I BIOL 140B with a grade of C- or better. Total: 1			General Chemistry II	CHEM 111 with grade C- or better	-
Fifth Semester (FALL) D2 Social Science D4 Social Science D5 Social Science Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120. D8 Major BIOL 330 General Microbiology D9 Major CHEM 331 Organic Chemistry I CHEM 112 with grade C- or better. Total: Sixth Semester (SPRING) D9 Major CHEM 332 Organic Chemistry II C0de 2 US Code Total: Seventh Semester (FALL) D9 Major CHEM 340 Survey of Biochemistry Or better. D9 Major BIOL 320 Evolutionary Biology D9 Major BIOL 320 Evolutionary Biology D9 Major Elective 2 D9 Major Elective 3 D9 Major Science D9 Major Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) D9 COMPLET ON SITE OF The Manager of Completion of GE areas A1, A2, A3 and B4. D9 Major/Elective 4 D9 Major/Elective 4 D9 Major/Elective 5 D9 Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: Total: Total: Total: Total: Total: Total:	DS/ ED IVIUJOI	CHEWI 112	General elemistry ii	CHEWITTI WIGI GLAGE C OF DELICE.	<u> </u>
Fifth Semester (FALL) D2 Social Science D4 Social Science D5 Social Science Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120. D8 Major BIOL 330 General Microbiology D9 Major CHEM 331 Organic Chemistry I CHEM 112 with grade C- or better. Total: Sixth Semester (SPRING) D9 Major CHEM 332 Organic Chemistry II C0de 2 US Code Total: Seventh Semester (FALL) D9 Major CHEM 340 Survey of Biochemistry Or better. D9 Major BIOL 320 Evolutionary Biology D9 Major BIOL 320 Evolutionary Biology D9 Major Elective 2 D9 Major Elective 3 D9 Major Science D9 Major Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) D9 COMPLET ON SITE OF The Manager of Completion of GE areas A1, A2, A3 and B4. D9 Major/Elective 4 D9 Major/Elective 4 D9 Major/Elective 5 D9 Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: Total: Total: Total: Total: Total: Total:	UD Major	BIOL 310	Genetic Analysis I	BIOL 140B with a grade of C- or better.	
D2 Social Science Satisfactory score of 78 or higher on Math			,		15
D2 Social Science D Major		*	Fifth Semester (FALL)		
LD Major PHYS 125 Principles of Physics I Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120. UD Major BIOL 330 General Microbiology CHEM 331 Organic Chemistry I CHEM 112 with grade C- or better. Total: 1 Sixth Semester (SPRING) UD Major/Elective 1 BIOL US Code Total: 1 LD Major CHEM 332 Organic Chemistry II PHYS 125. UD Major CHEM 332 Organic Chemistry II CHEM 230 or CHEM 332 Organic Chemistry II Total: 1 Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry Or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major Elective 2 UD Major Elective 3 UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD-C/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 4 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1	D2				3
UD Major BIOL 330 General Microbiology UD Major CHEM 331 Organic Chemistry I CHEM 112 with grade C- or better. Total: 1 Sixth Semester (SPRING) UD Major/Elective 1 BIOL LD Major PHYS 126 Principles of Physics II PHYS 125. UD Major CHEM 332 Organic Chemistry II Code 2 US Code Total: 1 Seventh Semester (FALL) Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry UD Major BIOL 320 Evolutionary Biology UD Major Elective 2 UD Major Elective 3 UD-B/Overlay UD-Science Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD D Major/Elective 4 UD Major/Elective 4 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1				Satisfactory score of 78 or higher on Math	
UD Major	LD Major	PHYS 125	Principles of Physics I	Proficiency Assessment or MATH 120.	4
UD Major/Elective 1 BIOL LD Major PHYS 126 Principles of Physics II DM Major CHEM 332 Organic Chemistry II Code 2 US Code Total: 1 Seventh Semester (FALL) CHEM 230 or CHEM 332, both with grade C- or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major Elective 2 UD Major Elective 3 UD-B/Overlay UD-Science DD Major Elective 3 UD-B/Overlay UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Major/Elective 4 UD Major/Elective 4 UD Major/Elective 5 UD Major/Elective 5 UD Major/Elective 5 UD Major/Capstone BIOL 330 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1	UD Major				!
Sixth Semester (SPRING) UD Major/Elective 1 BIOL LD Major PHYS 126 Principles of Physics II D Major CHEM 332 Organic Chemistry II Code 2 US Code Total: Seventh Semester (FALL) Seventh Semester (FALL) CHEM 230 or CHEM 332, both with grade Corbetter. UD Major UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major Elective 2 UD Major Elective 3 UD-B/Overlay UD-B/Overlay UD-B/Overlay UD-B/Overlay UD-Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Major/Elective 4 UD Major/Elective 4 UD Major/Elective 5 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1	UD Major	CHEM 331	Organic Chemistry I	CHEM 112 with grade C- or better.	!
UD Major/Elective 1 BIOL LD Major PHYS 126 Principles of Physics II PHYS 125. UD Major CHEM 332 Organic Chemistry II Code 2 US Code Total: Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major Elective 2 UD Major Elective 3 UD-B/Overlay UD-B/Overlay UD-B/Overlay UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD-C/Overlay UD Dascial Science Completion of GE areas A1, A2, A3 and B4. UD-B/Overlay UD Major/Elective 4 UD Major/Elective 5 UD Major/Elective 5 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1				Total:	1
LD Major PHYS 126 Principles of Physics II PHYS 125. UD Major CHEM 332 Organic Chemistry II Total: 1 Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry Or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major/Elective 2 UD Major/Elective 3 UD Science Completion of GE areas A1, A2, A3 and B4. UD-B/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Major/Elective 4 UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1			Sixth Semester (SPRING)		
LD Major PHYS 126 Principles of Physics II PHYS 125. UD Major CHEM 332 Organic Chemistry II Total: 1 Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry Or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major/Elective 2 UD Major/Elective 3 UD Science Completion of GE areas A1, A2, A3 and B4. UD-B/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Major/Elective 4 UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1					
LD Major PHYS 126 Principles of Physics II PHYS 125. UD Major CHEM 332 Organic Chemistry II Total: 1 Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry Or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major/Elective 2 UD Major/Elective 3 UD Science Completion of GE areas A1, A2, A3 and B4. UD-B/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Major/Elective 4 UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1					
LD Major PHYS 126 Principles of Physics II PHYS 125. UD Major CHEM 332 Organic Chemistry II Total: 1 Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry Or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major/Elective 2 UD Major/Elective 3 UD Science Completion of GE areas A1, A2, A3 and B4. UD-B/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-Major/Elective 4 UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1	LID Major/Flooting 4	DIO!			T .
UD Major			Bringiples of Physics !!	DUVS 125	3
Code 2 US Code Total: 1 Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry Or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major Elective 2 UD Major Elective 3 UD-B/Overlay UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD-C/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Social Science Completion of GE areas A1, A2, A3 and B4. UD-Major/Elective 4 UD Major/Elective 5 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1				F1113 123.	!
Seventh Semester (FALL) UD Major CHEM 340 Survey of Biochemistry Or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major/Elective 2 UD Major Elective 3 UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD Cycverlay UD Social Science Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 4 UD Major/Elective 5 UD Major/Elective 5 UD Major/Elective 5 UD Major/Flective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1		CITEIVI 332			
Seventh Semester (FALL) CHEM 340 Survey of Biochemistry CHEM 230 or CHEM 332, both with grade C- or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major/Elective 2 UD Major Elective 3 UD Science Completion of GE areas A1, A2, A3 and B4. Fighth Semester (SPRING) UD-C/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Social Science Completion of GE areas A1, A2, A3 and B4. UD-Major/Elective 4 UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 5 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1	Code 2	+	03 code	Total	
UD Major CHEM 340 Survey of Biochemistry or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major Elective 2 UD Major Elective 3 UD-B/Overlay UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD-C/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-B/Overlay UD Social Science Completion of GE areas A1, A2, A3 and B4. UD-B/Overlay UD Major/Elective 4 UD Major/Elective 5 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1			Soventh Source (PAI)	IOLdI:	1 1
UD Major CHEM 340 Survey of Biochemistry or better. UD Major BIOL 320 Evolutionary Biology BIOL 310. UD Major/Elective 2 UD Major Elective 3 UD-B/Overlay UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD-C/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Science Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 4 UD Major/Elective 5 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1			Seventn Semester (FALL)	CHEM 220 or CHEM 222 both with and 1- C	
UD Major/Elective 2 UD Major Elective 3 UD-B/Overlay UD-C/Overlay UD-Overlay	UD Major	CHEM 340	Survey of Biochemistry	or better.	
UD Major/Elective 2 UD Major Elective 3 UD-B/Overlay UD-B/Overlay UD-C/Overlay UD-C/Overlay UD-C/Overlay UD-Arts or Humanities UD-B/Overlay UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Eighth Semester (SPRING) UD-C/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Major/Elective 4 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total:					
UD Major/Elective 3 UD-B/Overlay UD-B/Overlay UD-B/Overlay UD-C/Overlay UD-Arts or Humanities UD-B/Overlay UD Arts or Humanities UD-B/Overlay UD Major/Elective 4 UD Major/Elective 4 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total:		52.520			
UD-B/Overlay UD Science Completion of GE areas A1, A2, A3 and B4. Total: 1 Fighth Semester (SPRING) UD-C/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 4 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1		1	1		
Total: 1			LID Science	Completion of GF areas A1 A2 A3 and B4	
UD Lot Description Descr	OD D/OVERIAY	†	55 Science		1
UD-C/Overlay UD Arts or Humanities Completion of GE areas A1, A2, A3 and B4. UD-D/Overlay UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 4 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1		1	Fighth Semester (SDRING)	Total.	1
UD-D/Overlay UD Social Science Completion of GE areas A1, A2, A3 and B4. UD Major/Elective 4 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total:	IID-C/Overlay			Completion of GE areas A1 A2 A2 and B4	1
UD Major/Elective 4 UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total:		+			
UD Major/Elective 5 UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1		+	OD SOCIAL SCIENCE	Completion of GE areas A1, A2, A3 and B4.	
UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1	OD IVIAJOF/Elective 4	+	1		
UD Major/Capstone BIOL 430 Microbial Physiology and Biochemistry BIOL 330, and CHEM 340 or CHEM 441. Total: 1	UD Major/Flective 5				
Total:		BIOI 430	Microbial Physiology and Biochemistry	BIOL 330, and CHEM 340 or CHEM 441	
	oo major/capstorie	5.52 450	microsia. I hysiology and biochemistry	5.52 550, and Chew 540 or Chew 441.	
				Total:	1
	Total Units:				120

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.

	ation Requirement Checklist
Area A (9 units): Communication in the En (Must earn passing grade	
☐ 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	ssing grade of C /CB or bottor)
☐ B4. Quantitative Reasoning (Must earn pa	um of three different disciplines as
designated by course prefix (☐ C1. Arts	e.g., ARI, THEA, WOS
☐ C2. Humanities	
□ *Additional Lower-division Area C Course	in Arts (C1) or Humanities (C2)
Area D (6 units) : Social Sciences - Minimu	m of three different disciplines as
designated by course prefix (e. □ D1.	g., ANTH, ECON, POSC)
□ D2.	
Area E (3 units) : Lifelong Learnin	g and Self-Development
Area F (3 units): Etl	nic Studies
□ F.	Control till o for
Second Composition : Requires completion Must be completed before att	
☐ Second Composition	
U.S. Code (American Institutions Requirements of U.S. Code Requirements of U.S. 1 (U.S. 2) (California State 8)	. History), US-2 (U.S. Constitution),
and US-3 (California State & ☐ Code 1.	Local Government).
□ Code 2.	
Upper Division GE Requirements (9 units): S A1, A2, A3, and B4 w	
☐ 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 m	
GE or maj	ay be upper or lower division, and or
GE or maj ☐ Diversity (Div)	
GE or maj Diversity (Div) Social Justice (SJ)	
GE or maj Diversity (Div) Social Justice (SJ) Sustainability (S)	or
GE or maj Diversity (Div) Social Justice (SJ) Sustainability (S) Elective Cou	rses
GE or maj Diversity (Div) Social Justice (SJ) Sustainability (S) Elective Co. Choose a minimum of 15 units of electives fr	rses om the following list of
GE or maj Diversity (Div) Social Justice (SJ) Sustainability (S) Elective Cou	rses om the following list of ion and/or BIOL 490 Independent
GE or maj Diversity (Div) Social Justice (SJ) Sustainability (S) Elective Co. Choose a minimum of 15 units of electives fr courses. Note: BIOL 398 Co-operative Educa	rses om the following list of tion and/or BIOL 490 Independent elective credit. Enrollment in these
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GE or maj □ Diversity (Div) □ Social Justice (SJ) □ Sustainability (S) Elective Co. Choose a minimum of 15 units of electives fr courses. Note: BIOL 398 Co-operative Educa Study may be used for a maximum of 3 units courses requires approval by a faculty memb BIOL 431 - Medical Microbiology Units: 5 BIOL 432 - Microbia-Host Interactions Units: 3 BIOL 434 - Molecular Microbiology Units: 3 * BIOL 440 - Molecular Virology Units: 3 * BIOL 441 - Parasitology Units: 3 * BIOL 442 - Epidemiology Units: 3 * BIOL 443 - Hematology Units: 3 * BIOL 446 - Parhmanology Units: 4 * BIOL 446 - Parhogenic Microbiology Units: 3 BIOL 447 - Zoonoses & Emerging Infectious I * BIOL 446 - Biology of Fungl Units: 4 * BIOL 446 - Biology of Fungl Units: 4	rses om the following list of ion and/or BIOL 490 Independent elective credit. Enrollment in these er and the Department Chair.
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*Students are required to take a minimum of 40 semester units as upper division (includes 9 units upper division GE)