B.S., Concentration in Microbiology (Starting with ENGL 102 and MATH 115E) MINIMUM TOTAL UNITS TO DEGREE: 120 units

	Course	Course Title		Units
	FAL	L (Yr 1, Semester 1)		
E	BIOL 130	Connecting to Biology		2
LD Major	PHYS 125	Principles of Physics I		4
Prereq/B4	MATH 115E	Algebra with support		5
^C1		Student choice		3
E		Student choice		1
			TOTAL:	15

FALL (Yr 2, Semester 3)			
B1		General Chemistry I	3
B1	CHEM 111L	General Chemistry I Lab	2
LD Major	BIOL 140B	Principles of Organismal Biology	5
LD Major	MATH 130	Calculus I	4
A3	PHIL 100	Workshop in Critical Thinking	3
		TOTAL:	17

FALL (Yr 3, Semester 5)			
LD Major	CHEM 331	Organic Chemistry I	5
UD Major	BIOL 330	General Microbiology	5
UD Major	BIOL 320	Evolutionary Biology	3
^C1		Student choice	3

	TOTAL:	16

FALL (Yr 4, Semester 7)			
UD Major	CHEM 340	Survey of Biochemistry	3
**UD Maj Elec 3		Student Choice	3-4
**UD Maj Elec 4		Student Choice	3-4
^F		Student choice	3
^UD-C		Student Choice	3
		TOTAL:	15-17
*ls a prerequisi	te for a requi	red major course; does not count towa	rd majoi

**A minimum of 15 upper division elective units required **As part of your breaking E requirements, you need to satify the jonowing overlays: Diversity, Social Justice, and Sustainability. You can double count an

overlay with one of the required letter-based GE requirements (e.g., C2/Diversity, UD-D/Social Justice, UD-B/Sustainability)

Note: Placement of GE courses are suggestions and may be moved following consultation with an advisor

	Course	Course Title	Units	
	SPR	ING (Yr 1, Semester 2)		
B2/LD Major	BIOL 140A	Principles of Cell & Mol. Biology	5	
LD Major	PHYS 126	Principles of Physics II	4	
Prereq/B4	MATH 120	Precalculus	3	
A2	ENGL 102	Accel. College Writing (Eng Comp)	3	
		TOTAL:	15	

SPRING (Yr 2, Semester 4)			
B3	CHEM 112	General Chemistry II	5
UD Major	BIOL 310	Genetic Analysis I	4
A1		Student choice	3
2nd Comp	ENGL 201	College Writing II	3
^D1/CODE 1		Student choice	3
		TOTAL:	18

SPRING (Yr 3, Semester 6)			
LD Major	CHEM 332	Organic Chemistry II	5
**UD Maj Elec 1		Student Choice	3-4
**UD Maj Elec 2		Student Choice	3-4
UWR		Student Choice	3
^C2		Student choice	3
		TOTAL:	17-19

	SPR	NG (Yr 4, Semester 8)	
Capstone	BIOL 430	Microbial Biochem and Metabolism	3
**UD Maj Elec 5		Student Choice	3-0
^D2/CODE 2		Student choice	3
^C3		Student choice	3
^UD-B		Student Choice	3
^UD-D		Student Choice	3
		TOTAL:	15-18