

B.S. in Biological Sciences - Concentration in Cell and Molecular (Starting with ENGL 100 and MATH 120)

TOTAL UNITS TO DEGREE: 75 units

Course	Course Title	Units	
FALL (Yr 1, Semester 1)			
E	BIOL 130	Connecting to Biology	2
*Prereq	MATH 125	Precalculus with Algebra	5
A2	ENGL 100	College Writing Stretch I (Eng Comp)	3
C1		Student choice	3
D1/CODE 1		Student choice	3
TOTAL:			16

Course	Course Title	Units	
SPRING (Yr 1, Semester 2)			
B2/LD Major	BIOL 140A	Principles of Cell & Mol. Biology	5
B4/LD Major	MATH 130	Calculus	4
A2	ENGL 101	College Writing Stretch II (Engl Comp)	3
C2		Student choice	3
E		Student choice	1
TOTAL:			16

Course	Course Title	Units	
FALL (Yr 2, Semester 3)			
LD Major	BIOI 140B	Principles of Organismal Biology	5
B1/LD Major	CHEM 111	General Chemistry I	5
2nd Comp		Student Choice	3
A3	PHIL 100	Workshop in Critical Thinking	3
TOTAL:			16

Course	Course Title	Units	
SPRING (Yr 2, Semester 4)			
LD Major	CHEM 112	General Chemistry II	5
UD Major	BIOL 310	Genetic Analysis I	4
A1	COMM 100	Communication	3
D2/CODE 2		Student choice	3
TOTAL:			15

Course	Course Title	Units	
FALL (Yr 3, Semester 5)			
B3/LD Major	PHYS 125	Principles of Physics I	4
UD Major	CHEM 331	Organic Chemistry I	5
UD Major	BIOL 320	Evolutionary Biology	3
F		Student choice	3
C3		Student choice	3
TOTAL:			18

Course	Course Title	Units	
SPRING (Yr 3, Semester 6)			
LD Major	PHYS 126	Principles of Physics II	4
UD Major	CHEM 332	Organic Chemistry II	5
UD Major	BIOL 410	Genetic Analysis II	3
UWR***		Student Choice	3
E		Student choice	1
TOTAL:			16

Course	Course Title	Units	
FALL (Yr 4, Semester 7)			
UD Major	CHEM 441	Biochemistry I	4
**UD Maj Elec		Student choice	3-4
UD Major	BIOL 424	Bioinformatics	3
D4/Overlay		Student Choice	3
B6/Overlay		Student Choice	3
TOTAL:			16-17

Course	Course Title	Units	
SPRING (Yr 4, Semester 8)			
UD Major	BIOL 426	Advanced Mol. & Cell Biology	3
UD Major	BIOL 427	Mol and Cell Biology Lab	3
UD Major	BIOL 428	Genomics	3
**UD Maj Elec		Student choice	3-4
C4/Overlay		Student Choice	3
TOTAL:			14-16

*Is a prerequisite for a required major course; does not count toward major unit count.

**A minimum of 7 upper division elective units required

***ES 300W satisfies UD-C, SJ, and UWR in one course

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