

## B.S. in Biological Sciences - Concentration in Cell and Molecular (Starting with ENGL 100 and MATH 115E)

TOTAL UNITS TO DEGREE: 75 units

Course	Course Title	Units	
<b>FALL (Yr 1, Semester 1)</b>			
E	BIOL 130	Connecting to Biology	2
*Prereq	MATH 115E	Algebra with Support	5
A2	ENGL 100	College Writing Stretch I (Eng; Comp)	3
C1		Student choice	3
D1/CODE 1		Student choice	3
<b>TOTAL:</b>			<b>14</b>

Course	Course Title	Units	
<b>SPRING (Yr 1, Semester 2)</b>			
B2/LD Major	BIOL 140A	Principles of Cell & Mol. Biology	5
*Prereq	MATH 120	Precalculus	3
A1	COMM 100	Oral Communication	3
A2	ENGL 101	College Writing Stretch II (Engl Comp)	3
C2		Student choice	3
<b>TOTAL:</b>			<b>17</b>

Course	Course Title	Units	
<b>FALL (Yr 2, Semester 3)</b>			
B1/LD Major	CHEM 111	General Chemistry I	3
B1/LD Major	CHEM 111L	General Chemistry I Lab	2
LD Major	BIOL 140B	Principles of Organismal Biology	5
B4/LD Major	MATH 130	Calculus	4
A3	PHIL 100	Workshop in Critical Thinking	3
<b>TOTAL:</b>			<b>17</b>

Course	Course Title	Units	
<b>SPRING (Yr 2, Semester 4)</b>			
LD Major	CHEM 112	General Chemistry II	5
UD Major	BIOL 310	Genetic Analysis I	4
2nd Comp		Student Choice	3
C3		Student choice	3
F		Student choice	3
<b>TOTAL:</b>			<b>18</b>

Course	Course Title	Units	
<b>FALL (Yr 3, Semester 5)</b>			
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
D2/CODE 2		Student choice	3
		Student choice	1
<b>TOTAL:</b>			<b>16</b>

Course	Course Title	Units	
<b>SPRING (Yr 3, Semester 6)</b>			
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
<b>TOTAL:</b>			<b>15</b>

Course	Course Title	Units	
<b>FALL (Yr 4, Semester 7)</b>			
UD Major	CHEM 441	Biochemistry I	4
UD Major	BIOL 424	Bioinformatics	3
**UD Maj Elec		Student choice	3-4
C4/Overlay		Student Choice	3
D4/Overlay		Student Choice	3
<b>TOTAL:</b>			<b>16-17</b>

Course	Course Title	Units	
<b>SPRING (Yr 4, Semester 8)</b>			
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
B6/Overlay		Student Choice	3
<b>TOTAL:</b>			<b>15-16</b>

\*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 Breadth/GE courses are suggestions and may be moved following consultation with an advisor