

## Bachelor of Science - Concentration in Cell & Molecular Biology (Starting with ENGL 102 and MATH 115E)

MINIMUM TOTAL UNITS TO DEGREE: 120 units

Course	Course Title	Units	
<b>FALL (Yr 1, Semester 1)</b>			
Requirement	Course	Course Title	Units
E	BIOL 130	Connecting to Biology	2
LD Major	PHYS 125	Principles of Physics I	4
*Prereq/B4	MATH 115E	Algebra with Support	5
A1	COMM 100	Communication	3
E		Student choice	1
<b>TOTAL:</b>			<b>15</b>

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

Requirement	Course	Course Title	Units
<b>FALL (Yr 2, Semester 3)</b>			
B1	CHEM 111	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
2nd Comp	ENGL 201	College Writing II	3
<b>TOTAL:</b>			<b>17</b>

Requirement	Course	Course Title	Units
<b>SPRING (Yr 2, Semester 4)</b>			
LD Major	CHEM 112	General Chemistry II	3
LD Major	CHEM 112L	General Chemistry II Lab	2
UD Major	BIOL 310	Genetic Analysis I	4
A3	PHIL 100	Workshop in Critical Thinking	3
^C1		Student choice	3
<b>TOTAL:</b>			<b>15</b>

Requirement	Course	Course Title	Units
<b>FALL (Yr 3, Semester 5)</b>			
UD Major	CHEM 331	Organic Chemistry I	5
UD Major	BIOL 320	Evolutionary Biology	3
^D1/CODE 1		Student choice	3
^C2		Student choice	3
^F		Student choice	3
<b>TOTAL:</b>			<b>17</b>

Requirement	Course	Course Title	Units
<b>SPRING (Yr 3, Semester 6)</b>			
UD Major	CHEM 332	Organic Chemistry II	5
UD Major	BIOL 410	Genetic Analysis II	3
UD Major	BIOL 425	Techniques in Mammalian Cell Culture	3
^D2/CODE 2		Student choice	3
^C3		Student choice	3
<b>TOTAL:</b>			<b>17</b>

Requirement	Course	Course Title	Units
<b>FALL (Yr 4, Semester 7)</b>			
UD Major	CHEM 441	General Biochemistry I	4
UD Major	BIOL 424	Bioinformatics	3
**UD Maj Elec		Student Choice	4
^UD-B		Student Choice	3
UWR		Student Choice	3
<b>TOTAL:</b>			<b>17</b>

Requirement	Course	Course Title	Units
<b>SPRING (Yr 4, Semester 8)</b>			
Capstone	BIOL 426	Advanced Cellular & Molec Biology	3
UD Major	BIOL 427	Advanced Cellular & Molec Bio Lab	3
UD Major	BIOL 428	Genomics	3
^UD-C		Student choice	3
^UD-D		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 4 upper division elective units required

^Courses that you can double count with one of the three required overlays (Diversity, Social Justice, Sustainability)

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