

# Biology - Cell & Molecular Biology Course Plan

## Catalog Year 2020-2021

### Legend

**\* Major Requirement**

Must be taken to fulfill major requirements.

**† Major Elective**

Must be taken to fulfill major requirements, or replaced with an equivalent course.

**‡ Gen-Ed Requirement**

Must be taken to fulfill general education requirements.

**§ Elective**

Can be chosen from a selection of courses.

See MyGFU for detailed academic requirements.

### First Year

#### Fall Semester

General Biology I (BIOL 211) *	4 credits
Math GE Requirement* (MATH 190 or 201 recommended) ‡	4 credits
THEO 101 (I Believe) ‡	3 credits
Knowing and Being Known (LIBA 100) ‡	3 credits
Elective Credit §	3 credits
<b>Semester Total</b>	<b>17 credits</b>
<b>Cumulative Total</b>	<b>17 credits</b>

#### Spring Semester

General Biology II (BIOL 212) *	4 credits
Math Elective* (MATH 240 recommended) †	3 credits
I Believe (THEO 102) ‡	3 credits
Introduction to Communication (COMM 100) ‡	3 credits
Social Science GE Requirement** (PSYS 150 or SOCI 150 recommended) ‡	3 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>33 credits</b>

## Second Year

### Fall Semester

Genetics (BIOL 350) *	4 credits
General Chemistry I (CHEM 211) *	4 credits
Lifelong Fitness (HHPA 120) ‡	2 credits
HUMA 205 or Alternate Philosophy & Literature GE Requirement ‡	3 credits
Elective Credits §	3 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>49 credits</b>

### Spring Semester

Microbiology (or upper division BIOL elective) (BIOL 370) *	4 credits
General Chemistry II (CHEM 212) *	4 credits
Bible Elective GE Requirement (THEO 215 or 315) ‡	3 credits
Elective Credits §	6 credits
<b>Semester Total</b>	<b>17 credits</b>
<b>Cumulative Total</b>	<b>66 credits</b>

## Third Year

### Fall Semester

Cell Biology (BIOL 420) *	4 credits
Organic Chemistry I (CHEM 331) *	4 credits
History/Politics/International Studies GE Requirement ‡	3 credits
HUMA 290 or Alternate Fine Arts Requirement ‡	3 credits
Elective Credits §	3 credits
<b>Semester Total</b>	<b>17 credits</b>
<b>Cumulative Total</b>	<b>83 credits</b>

### Spring Semester

Biological Exploration*** (BIOL 490) *	2 credits
Molecular Biology (BIOL 410) *	4 credits
Organic Chemistry II (CHEM 332) *	4 credits
Intercultural GE Requirement ‡	3 credits
Elective Credits §	3 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>99 credits</b>

## Fourth Year

### Fall Semester

Biology Elective †	4 credits
--------------------	-----------

Biochemistry I (strongly recommended) (CHEM 341) §	4 credits
Engaging Christ in Transition (LIBA 400) ‡	3 credits
Elective Credits §	6 credits
<b>Semester Total</b>	<b>17 credits</b>
<b>Cumulative Total</b>	<b>116 credits</b>

### Spring Semester

Biology Field Studies Elective †	4 credits
Biochemistry II (strongly recommended) (CHEM 342) §	4 credits
Elective Credits §	6 credits
<b>Semester Total</b>	<b>14 credits</b>
<b>Cumulative Total</b>	<b>130 credits</b>

## Notes

\*To fulfill GE Requirements students can take MATH 150, MATH 180, MATH 190, MATH 201, or CSIS 201. To fulfill Biology Major Requirements students need to take MATH 201, MATH 240 (recommended, but does not meet GE requirements), or CSIS 201 (offered in the Fall). It is recommended that students take either MATH 190/201 or CSIS 201 and MATH 240. Please talk with your CAP Coach or Faculty Advisor for more information about these options.

\*\*Students taking a Pre-med track should consider taking both PSYC 150 and SOCI 150

\*\*\*BIOL 490 is only offered in the Spring Semester