

# Biology - Systems & Structural Biology Course Plan

## Catalog Year 2019-2020

### 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
General Chemistry I (CHEM 211) *	4 credits
I Believe (THEO 101) ‡	3 credits
Knowing and Being Known (LIBA 100) ‡	3 credits
<b>Semester Total</b>	<b>14 credits</b>
<b>Cumulative Total</b>	<b>14 credits</b>

#### Spring Semester

General Biology II (BIOL 212) *	4 credits
General Chemistry II (CHEM 212) *	4 credits
I Believe (THEO 102) ‡	3 credits
Introduction to Communication (COMM 100) ‡	3 credits
Social Science GE Requirement (Alternative option to take GE MATH and move GE Social Science to second year) ‡	3 credits
<b>Semester Total</b>	<b>17 credits</b>
<b>Cumulative Total</b>	<b>31 credits</b>

## Second Year

### Fall Semester

Genetics - strongly recommended (BIOL 350 ) *	4 credits
Organic Chemistry I (CHEM 331) *	4 credits
Lifelong Fitness (HHPA 120) ‡	2 credits
HUMA 205 or Alternate Philosophy and Literature GE Requirement ‡	3 credits
MATH 201, 240 or CSIS 201 - (MATH 240 will not meet GE MATH requirement) ‡	3 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>47 credits</b>

### Spring Semester

BIOL Field Studies Group Elective *	4 credits
Organic Chemistry II (CHEM 332) *	4 credits
Bible Elective GE Requirement ‡	3 credits
Electives §	4 credits
<b>Semester Total</b>	<b>15 credits</b>
<b>Cumulative Total</b>	<b>62 credits</b>

## Third Year

### Fall Semester

Cell Biology (BIOL 420) *	4 credits
History/Politics/Intercultural Studies GE Requirement ‡	3 credits
HUMA 290 or Alternate Fine Arst GE Requirement ‡	3 credits
Electives §	6 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>78 credits</b>

### Spring Semester

Biological Exploration (Only offered in Spring) (BIOL 490) *	2 credits
Advanced Human Anatomy or Comparative Vertebrate Anatomy (BIOL 450 or 322) *	4 credits
Developmental Biology/Plant Physiology (BIOL 310 or 340) *	4 credits
Intercultural GE Requirement ‡	3 credits
Electives §	4 credits
<b>Semester Total</b>	<b>17 credits</b>
<b>Cumulative Total</b>	<b>95 credits</b>

## Fourth Year

### Fall Semester

Advanced Physiology (BIOL 333 ) *	4 credits
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Electives §	12 credits
<b>Semester Total</b>	<b>16 credits</b>
<b>Cumulative Total</b>	<b>111 credits</b>

### Spring Semester

Engaging Christ in Transition ‡	3 credits
Electives §	12 credits
<b>Semester Total</b>	<b>15 credits</b>
<b>Cumulative Total</b>	<b>126 credits</b>

## Notes