



## Approved Sample Curriculum

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. The major program in Biology meets the requirements for most graduate programs in biology and the requirements for Pharmacy and other medically-related programs. Note that Pharmacy school admission requirements vary by institution; please contact the Pre-Pharmacy advisor.

### First Year

Fall	CR	Spring	CR
FYE150 First-Year Seminar	1	<i>SOC105 Principles of Sociology</i>	3
<b>BIO101/101L General Biology I</b>	4	<b>BIO102/102L General Biology II</b>	4
<b>CHE111/111L General Chemistry I</b>	4	<b>CHE113/113L General Chemistry II</b>	4
<b>CIS111 Introduction to Computer Info Systems</b>	3	ENG150 Literature, Writing and Research	3
History Core	3	MAT115 Pre-calculus* OR <b>MAT143 Elements of Calculus**</b>	3-4
<b>Subtotal</b>		15	<b>Subtotal</b> 17 - 18

### Second Year

Fall	CR	Spring	CR
<b>BIO211/211L Anatomy and Physiology I</b>	4	<b>BIO212/212L Anatomy and Physiology II</b>	4
<b>BIO204 Evolution Seminar</b>	3	<b>BIO206/206L Genetics</b>	4
<b>CHE220/220L Organic Chemistry I</b>	4	<b>CHE240/240L Organic Chemistry II</b>	4
<b>BIO205 Biological Literature</b>	3	COM105 Foundations of Public Speaking	3
<b>MAT143 Elements of Calculus**</b> OR Elective	3-4		
<b>Subtotal</b>		16 - 17	<b>Subtotal</b> 14

### Third Year

Fall	CR	Spring	CR
<i>SOC216</i> OR <i>SOC217</i>	3	ENG200+ English Literature	3
<b>PHY121/121L Elements of Physics I</b>	4	<b>BIO305/305L Microbiology</b> OR <b>BIO330/330L Biochemistry</b>	4
<b>MAT205 Statistics</b>	3	<b>PHY122/122L Elements of Physics II</b>	4
<b>Foreign Language</b>	3	Theology Core	3
Outer Core Elective (Minor, Second Major, or Outer core sequence)	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3
<b>Subtotal</b>		17	<b>Subtotal</b> 17

### Fourth Year

Fall	CR	Spring	CR
<b>BIO3XX Biology Elective</b> (Ecological Biology)	4	<b>BIO305/305L Microbiology</b> OR <b>BIO330/330L Biochemistry</b>	4
Outer Core Elective (Minor, Second Major, or Outer core sequence)	3	<b>BIO489 Biology Seminar</b>	3
Philosophy Core #1– Ethics preferred	1-3	Theology Core	3
Fine Arts Core	3	Philosophy Core #2	1-3
Outer Core Elective (Minor, Second Major, or Outer core sequence) or BIO Concentration course***	3-4	Outer Core Elective (Minor, Second Major, or Outer core sequence) or BIO Concentration course ***	3-4
<b>Subtotal</b>		14 - 17	<b>Subtotal</b> 14 - 17

**Total Credits: 124 – 132**

*Italics*: needed for either UK or UC pharmacy program admission; **Bold**: needed for a BS in Biology

\* Students with an ACT composite below 24 must take MAT 115. \*\*Students with an ACT Composite below 24 must take MAT115 in the Fall semester. Students with an ACT Composite above 24 may take MAT115 if they choose or begin with MAT143 in the Fall or Spring semester.

\*\*\*This schedule includes 4 upper-level electives (211/211L+212/212L, 305/305L, 330/330L, BIO3XX) of which 2 are in the organismal ('B') subject area. Therefore, an 'B' concentration can be added with the addition of 2 more electives in this field and 2-4 hours of independents study or an approved co-op/internship experience.

Updated: Spring 2024

**Please note: No one earning a BS in Biology may graduate with more than one "C-" in an Biology (BIO) course required for their major.**

