

**CURRICULUM GUIDE**  
**Biology, B.S. (General Biology Concentration)**  
**2022-2023**

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The schedule below is an **EXAMPLE** of how you can arrange your class schedule.  
 Please consult your advisor for specific changes that may need to be made.

	Fall Semester	Spring Semester	Course Number	Course Name
<b>Freshman Year</b>	SCO 100B	1	BIO 112	4
	BIO 111	4	CHE 112	3
	<sup>g</sup> CHE 111 (fulfills Gen. Ed. 4)	3	CHE 112L	1
	CHE 111L	1	Gen. Ed. 1B (ENG 102)	3
	Gen. Ed. 1A (ENG 101)	3	<sup>g</sup> MAT 234 <i>or</i> 211 (fulfills Gen. Ed. 2)	3-4
	Gen. Ed. 3A (Arts)	3		
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>14-15</b>
<b>Sophomore Year</b>	BIO 318	4	BIO 319	4
	CHE 361	3	† BIO (upper division) requirement	3
	CHE 361L	1	Gen. Ed. 1C (Oral Comm.)	3
	STA 215 <i>or</i> 270	3-4	Free Elective	3
	Free Elective	3	Free Elective	3
	<b>TOTAL</b>	<b>14-15</b>	<b>TOTAL</b>	<b>16</b>
<b>Junior Year</b>	BIO 315	4	BIO 320 (ACCT)	4
	<sup>g</sup> PHY 131 <i>or</i> 201 (fulfills Gen. Ed. 4)	5	† BIO (upper division) requirement	3
	Gen. Ed. 5A (History)	3	† BIO (upper division) requirement	3
	Gen. Ed. 3B (Humanities)	3	Gen. Ed. 5B (Soc. & Behav. Sci.)	3
			Free Elective	2
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>	
<b>Senior Year</b>	BIO 316	4	† BIO (upper division) requirement	3
	Gen. Ed. 6 (Diversity)	3	BIO 495	1
	Free Elective (upper division)	3	Gen. Ed. 6 (Diversity)	3
	Free Elective	3	Free Elective	3
	Free Elective	3	Free Elective	3
			Free Elective	0-2
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>13-15</b>	
<b>TOTAL HOURS TO DEGREE COMPLETION</b>		<b>120</b>		

Course Number	Course Name
<b>GENERAL EDUCATION &amp; UNIVERSITY REQUIREMENTS (37)</b>	
SCO 100B	Student Success Seminar in Biology (1)
<b>CORE COURSE REQUIREMENTS (29)</b>	
BIO 111	Cell and Molecular Biology (4)
BIO 112	Ecology and Evolution (4)
BIO 315	Genetics (4)
BIO 316	Ecology (4)
BIO 318	Botany (4)
BIO 319	Zoology (4)
BIO 320	Principles of Microbiology (4)
BIO 495	Evolution Theory and Application (1)
<b>† GENERAL BIOLOGY CONCENTRATION REQUIREMENTS (12)</b>	
<b>TWELVE (12) HOURS chosen from:</b>	
Any 300, 400, or 500 level BIO, CHE, or PHY course not included in Biology Core or from which Biology majors are not excluded.	
PHY 132 <i>or</i>	College Physics II (5)
PHY 202	University Physics (5)
Students applying to graduate school are strongly advised to include CHE 362/362L (4) and PHY 132 (5) as part of the 12 hours.	
<b>SUPPORTING COURSE REQUIREMENTS (14-16)</b>	
<sup>g</sup> CHE 111	General Chemistry I (3)
CHE 111L	General Chemistry Lab I (1)
<sup>*</sup> CHE 112	General Chemistry II (3)
<sup>*</sup> CHE 112L	General Chemistry Lab II (1)
<sup>*</sup> CHE 361	Organic Chemistry I (3)
<sup>*</sup> CHE 361L	Organic Chemistry Lab I (1)
<sup>g*</sup> MAT 234 <i>or</i>	Calculus I (4)
<sup>g*</sup> MAT 211	Applied Calculus (3)
<sup>g*</sup> PHY 131 <i>or</i>	College Physics I (5)
PHY 201	University Physics I (5)
STA 215 <i>or</i>	Intro. to Statistical Reasoning (3)
<sup>*</sup> STA 270	Applied Statistics I (4)
Bracketed items must be taken concurrently.	
<b>FREE ELECTIVES (26-28)</b>	

<sup>g</sup> Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

\* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division BIO courses. CHE 111/111L, 112/112L, 361, and/or 366; MAT 114 or higher.

**Upper division courses:** All students are required to have a minimum of 42 hrs. upper division (300-level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories. If 300-level classes are taken for Gen. Ed., they can be used to fulfill the 42 hours instead of upper division free electives.

Refer to the University Catalog at <http://www.catalogs.eku.edu/> regarding University and General Education Requirements. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.g. HUM 300W).

**Applied Critical & Creative Thinking (ACCT) Requirement:** Biology majors will fulfill ACCT with one of the following: BIO 320, 349, 598, HON 420 with a thesis topic approved by the Biology department, a program-approved leadership experience, or a program-approved study abroad experience. (Credit hours are incorporated into program requirements.)