

## Summary of Biology Program Requirements

## Suggested Course Sequence

### Biology Major

Major Requirements	20 hrs
Major Electives	16 hrs
<b>Total Major Hours</b>	<b>36 hrs</b>
<b>Major Supporting Courses</b>	<b>24-26 hrs</b>
<b>Required Minor</b>	<b>21 hrs</b>
<b>General Education</b>	<b>35 hrs</b>

Physical Education	3 hrs
Literature	3 hrs
Christian Studies	6 hrs
Art, Drama, Music	2 hrs
English Composition	6 hrs
Mass Communication	3 hrs
Mathematics (included in major requirements)	
Computing & Technology	3 hrs
Biological Science (included in major requirements)	
Physical Science (included in major requirements)	
Psychology/Sociology/Culture/Economics	6 hrs
History/Political Science	3 hrs

**Free Electives** 2-4 hrs

**Total Hours for Graduation** 120 hrs

### Biology Minor

Minor Requirements	8 hrs
Minor Electives	13 hrs
<b>Total Minor Hours</b>	<b>21 hrs</b>
Minor Supporting Courses	9 hrs

(Four of these hours are included in the general education program)



### Freshman Year

Fall Semester	Hours
BIO 200 Biological Concepts	3
ENG 111 Freshman Composition I	3
OR 100 Freshman Year Experience	1
MTH 210 Calculus I	4
General Education/Electives	4
Spring Semester	Hours
BIO 201 Zoology	4
ENG 112 Freshman Composition II	3
PSY 111 General Psychology	3
TH 120 Fundamentals of Speech <b>or</b>	
MAC 140 Introduction to Communication	3
General Education/Electives	3

### Sophomore Year

Fall Semester	Hours
BIO 202 Botany	4
CHE 111/113 General Chemistry I and Lab	4
CHE 109 Technical Writing & Lab Safety	1
CIS 100 Computer Concepts & Applications	3
ENG 170 Introduction to Literature	3
Spring Semester	Hours
BIO 321 Microbiology	5
CHE 112/114 General Chemistry II and Lab	5
General Education/Electives	6

### Junior Year

Fall Semester	Hours
BIO 341 Ecology	4
BIO Elective	3-4
CHE 341/343 Organic Chemistry I and Lab	4
PHY 141/143 General College Physics and Lab	4
Spring Semester	Hours
BIO 344 Genetics	4
CHE 342/344 Organic Chemistry II and Lab	5
PHY 142/144 General College Physics and Lab	4
Minor/General Education/Electives	4

### Senior Year

Fall Semester	Hours
BIO 362 Comparative Vertebrate Anatomy	5
BIO 480 Seminar <b>or</b>	
BIO 490 Research	1
Minor/General Education/Electives	8
Spring Semester	Hours
BIO Electives	8
Minor/General Education/Electives	4

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# Biology B.S. Major & Minor without Teacher Certification

Students majoring in biology pursue careers in dentistry, medicine, optometry, pharmacy, physical therapy, and veterinary science. The Division has over a 95% acceptance rate for students entering professional schools after completing studies at Campbellsville University. Students seeking entrance into a professional school complete a degree with a major in biology and minor in chemistry. (A major in chemistry and minor in biology is also possible.)

Biology majors may also pursue graduate level studies. A student may complete a major or minor in Biology, each leading to the Bachelor of Science Degree or Bachelor of Arts Degree, without teacher certification.

## BIOLOGY MAJOR

<b>MAJOR REQUIREMENTS</b>	<b>20 hrs</b>
BIO 200 Biological Concepts	3
BIO 201 Zoology (with lab)	4
BIO 202 Botany (with lab)	4
BIO 341 Ecology	4
BIO 344 Genetics	4
BIO 480 Senior Seminar <b>OR</b>	
BIO 490 Senior Research	1
<b>MAJOR ELECTIVES</b>	<b>16 hrs</b>
BIO 215 Winter Botany	2
BIO 216 Spring Flora	2
BIO 300 Paleontology	3
BIO 315 Research Methods	2
BIO 317 Plant Taxonomy	3
BIO 320 Immunology	3
BIO 321 Microbiology	5
BIO 332 Entomology	3
BIO 342 Field Studies in Biology	1-3
BIO 348 Medical Terminology	3
BIO 362 Comparative Vertebrate Anatomy	5
BIO 380 Junior Seminar	1-3
BIO 390 Junior Research	1-3
BIO 400 Special Topics	3
BIO 410 Cell Biology	3
BIO 415 Aquatic Biology	4
BIO 422 Animal Physiology	4
BIO 441 Principles of Biological Conservation	3
BIO 470 Speciation	3
BIO 475 Human Physiology	4
BIO 480 Senior Seminar	1-3
BIO 490 Senior Research	1-3

<b>SUPPORTING COURSES</b>	<b>24-26 hrs</b>
CHE 109 Technical Writing & Lab Safety	1
CHE 111 General Chemistry I	3
CHE 113 General Chemistry I Lab	1
CHE 112 General Chemistry II	3
CHE 114 General Chemistry II Lab	2
MTH 111 College Algebra <b>and</b>	3
MTH 123 Elementary Calculus	3
<b>or</b>	
MTH 112 Trigonometry <b>or</b>	3
MTH 210 Analytics & Calculus I	4
PHY 141 General College Physics I	3
PHY 143 General College Physics I Lab	1
PHY 142 General College Physics II	3
PHY 144 General College Physics II Lab	1

## BIOLOGY MINOR

<b>MINOR REQUIREMENTS</b>	<b>8 hrs</b>
BIO 200 Biological Concepts	3
BIO 201 Zoology (with lab)	4
BIO 202 Botany (with lab)	4
<b>MINOR ELECTIVES</b>	<b>13 hrs</b>
BIO 215 Winter Botany	2
BIO 216 Spring Flora	2
BIO 300 Paleontology	3
BIO 315 Research Methods	2
BIO 317 Plant Taxonomy	3
BIO 320 Immunology	3
BIO 321 Microbiology	5
BIO 332 Entomology	3
BIO 341 Ecology	4
BIO 344 Genetics	4
BIO 348 Medical Terminology	3
BIO 362 Comparative Vertebrate Anatomy	5
BIO 371 Ornithology	4
BIO 372 Ichthyology	4
BIO 400 Special Topics (such as Stream Ecology, Marine Biology)	1-4
BIO 410 Cell Biology	3
BIO 415 Aquatic Biology	4
BIO 422 Animal Physiology	4
BIO 441 Principles of Biological Conservation	3
BIO 470 Speciation: Pattern & Process	3
BIO 475 Human Physiology	4
BIO 480 Senior Seminar	1-3
BIO 490 Senior Research	1-3
<b>SUPPORTING COURSES</b>	<b>9 hrs</b>
CHE 111 General Chemistry I	3
CHE 113 General Chemistry I Lab	1
CHE 112 General Chemistry II	3
CHE 114 General Chemistry II Lab	2