

BIOLOGY, BACHELOR OF SCIENCE WITH A CONCENTRATION IN GENERAL BIOLOGY (B.S.)

Program Requirements

CIP Code: 26.0101

Summary Checklist for General Education

| Code | Title | Hours |
|--------------------|---|-----------|
| Element 1 | | |
| A: | Written Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/) | 3 |
| B: | Written Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/) | 3 |
| C: | Oral Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/) | 3 |
| Element 2 | | |
| | Quantitative Reasoning (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/) | 3 |
| Element 3 | | |
| A: | Arts (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/) | 3 |
| B: | Humanities (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/) | 3 |
| Element 4 | | |
| | Natural Sciences (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/) | 6 |
| Element 5 | | |
| A: | Historical Science (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/) | 3 |
| B: | Social Behavioral Science (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/) | 3 |
| Element 6 | | |
| | Diversity of Perspectives Experiences (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/) | 6 |
| Total Hours | | 36 |

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

Major

| Code | Title | Hours |
|---|--------------------------------|-------|
| University Graduation Requirements | | |
| | General Education | 36 |
| | <i>Student Success Seminar</i> | |

| | | |
|---------|--|---|
| SCO 100 | Student Success Seminar (waived for transfers with 30+ hrs.) | 1 |
|---------|--|---|

Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

| Major Requirements | | |
|---------------------------|-------------------------------------|---|
| <i>Core Courses</i> | | |
| BIO 111 | Cell and Molecular Biology | 4 |
| BIO 112 | Ecology and Evolution | 4 |
| BIO 315 | Genetics | 4 |
| BIO 316 | Ecology | 4 |
| BIO 318 | General Botany | 4 |
| BIO 319 | General Zoology | 4 |
| BIO 320 | Principles of Microbiology | 4 |
| BIO 495 | Evolutionary Application and Theory | 1 |

| Concentrations | | |
|---|--|-------|
| Students must select at least one of the following Concentrations: Courses used for one concentration may not count toward another concentration. | | |
| Aquatic Biology | | |
| Biodiversity and Conservation | | |
| General Biology | | 23-24 |
| Biology Teaching | | |
| <i>Free Electives</i> | | |
| Choose from 30- 31 hours of free electives | | 30-31 |
| Total Hours | | 120 |

Concentration

| Code | Title | Hours |
|---|--|--------------|
| Concentration Courses | | |
| Choose from 12 hours of the following: ¹ | | 12 |
| 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 | College Physics II | |
| | or PHY 202 University Physics II | |
| <i>Supporting Course Requirements</i> | | |
| CHE 111 & 111L | General Chemistry and General Chemistry Lab I (Element 4) ^G | 4 |
| CHE 112 & 112L | General Chemistry II and General Chemistry Lab | 4 |
| CHE 361 & 361L | Organic Chemistry I and Organic Chemistry Lab I | 4 |
| MAT 234 | Calculus I (Element 2) ^G | |
| | or MAT 211 Applied Calculus | |
| PHY 131 | College Physics I (Element 4) ^G | |
| | or PHY 201 University Physics I | |
| STA 215 | Introduction to Statistical Reasoning | 3-4 |
| | or STA 270 Applied Statistics | |
| Total Hours | | 23-24 |

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Students applying to graduate school are strongly advised to include CHE 362 Organic Chemistry II/CHE 362L Organic Chemistry Lab II and PHY 132 College Physics II or PHY 202 University Physics II as part of the 12 hours.

2 Biology, Bachelor of Science with a Concentration in General Biology (B.S.)

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Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above.