



MAJOR: BIOLOGY

Eligibility to graduate is based on the completion of all degree requirements and a minimum of 120 credits. Some majors require more than 120 credits to fulfill

| | <u>ummary</u> | | B.A. General Education Core Requirements | (61) |
|----------|---|---|---|-------|
| | ducation Core Requirements | 60-61 | Same requirements as Bachelor of Science | |
| • | uirements for all Biology Majors | | Exception: Humanities | (18) |
| | ation Requirements | 31 | ENG/HUM English Literature or Approved Lit | |
| inimum | Required for Graduation: | 120 | based HUM prefix Elective | 3 |
| S Gan | eral Education Core Require | ments (60) | PHL213 The Worldview Seminar | 3 |
| o. Gen | lerai Luucation Core Requirei | 1161165 (00) | Foreign Language | 12** |
| dical E | ducation Boquiromants | (12-18) | Math and Science: Only 6 credits required | |
| | ducation Requirements ased on transfer hours accepted at point | • | Core Requirements for all Biology Majors | (25-2 |
| | redits, 60 hrs = 12 credits | • | Biology Core Requirements | (19) |
| students | s are required to take BIB103, BIB105, T | HE205, ITC elective | BIO210 Biology I w/lab | 4 |
| 3103 | Introduction to Biblical Literatu | ro 2 | BIO220 Biology II w/lab | 4 |
| 105 | Bible Study Methods | 3 | CHM214 General Chemistry I w/lab | 4 |
| | Introduction to Theology | 3 | CHM224 General Chemistry II w/lab | 4 |
| L203 | Intercultural Studies Elective | 3 | SCI271 Introduction to Literature Review | 1 |
| | Christian Ministry Elective | 3 | Two credits of the following: | 1 |
| | Bible/Theology Elective | 3 | SCI391 Scientific Research | |
| | of upper division are required in | J | SCI481 Internship | |
| | ications | (9) | | |
| - | College Writing I | 3 | • | (6-8) |
| | College Writing II | 3 | Choose 2 of the following courses: | |
| | Fundamentals of Speech or | 3 | MTH133 Pre-Calculus | 3 |
| | approved course w/ oral preser | ntations | MTH223 Statistics & Probability | 3 |
| ımaniti | | (9) | MTH234 Calculus I: Differential | 4 |
| G/HUN | И English Lit or | | MTH244 Calculus II: Integral | 4 |
| | HUM prefix Elective | 3 | | |
| L213 | The Worldview Seminar | 3 | | |
| | Humanities Elective | 3 | | |
| athema | atics and Sciences | (9) | | |
| TH | Math elective | met in major | | |
| Cl | Science w/ lab elective | met in major | | |
| ITH/SCI | Math or Science elective | met in major | | |

General Education Electives*

Social Sciences

General Education

IDS101 Freshman Seminar

HIS114/124 American History I or II

*(Any Gen Ed Discipline & HPR121/131/250 HPR limited to 3 total hours, No Varsity Sports.

Non-U.S. History Elective

Non-History Social Science Elec

(9)

3

3

3

(6)

Prorated Bible must be made up with Gen Ed Electives)

^{**}BA Degree requires the equivalent of 12 credits of study in foreign language. This requirement may be fulfilled by: 1. Completing the second year of a college sequence if completed 2 yrs in high school with proof of proficiency. Remaining 6 cr may be met through humanities electives.

^{2.} CLEP and transcript 6 cr or 12 cr. Remaining credits in humanities.

^{3.} COM363, COM373 Language & Culture Acquisition I, II and 6 additional credit hours of foreign language.

^{4.} Two foreign languages may be selected with the minimum of 6 credits in each language.

 $^{{\}it 5. Completion of the Corban \, Language \, Institute \, Pathway \, to \, English \, advanced \, fluency \, courses.}$

^{6. 12} credits of study in a Foreign Language.



2023-2024 Program Overview

| B.S. BIOLO | GY CONCENTRATION | (31) |
|---------------|---|-----------|
| BIO283 Eco | logy and Evolution | 3 |
| Choose one | of the following Physiology compor | nents: |
| BIO310 Ani | mal Physiology | 3 |
| BIO312 Pla | nt Physiology | 3 |
| Choose one | of the following Cellular componen | ts |
| BIO304 Mid | crobiology w/lab | 4 |
| BIO330 Cel | l & Molecular Biology w/lab | 4 |
| Select addit | ional credits to complete 31 credits | required |
| PHY215 Phy | sics I w/ lab | 4 |
| PHY230 Phy | sics II w/ lab | 4 |
| BIO234 Hui | man Anatomy & Physiology I w/lab | 4 |
| BIO244 Hui | man Anatomy & Physiology II w/lab | 4 |
| BIO310 Ani | mal Physiology | 3 |
| BIO312 Pla | nt Physiology | 3 |
| CHM314 Or | ganic Chemistry I w/lab | 4 |
| CHM324Org | ganic Chemistry II w/lab | 4 |
| | crobiology w/lab | 4 |
| BIO330 Cel | l & Molecular Biology w/lab | 4 |
| BIO444 Ger | netics w/lab | 4 |
| BIO443 Viro | ology & Immunology | 3 |
| SCI391/SCI4 | 81 Research or Internship (max 6 cr) | 1 |
| BIO4031 Bio | chemistry | 3 |
| | | |
| Total of 20 o | credits upper division is required in t | the major |
| BIOMEDICA | AL SCIENCES CONCENTRATION (2 | .6-34) |
| PHY215 | Physics I w/lab | 4 |
| PHY230 | Physics II w/lab | 4 |
| | /i . i | _ |

| BIOMEDICAL SCIENCES CONCENTRATION (26- | 34) |
|--|----------|
| PHY215 Physics I w/lab | 4 |
| PHY230 Physics II w/lab | 4 |
| BIO444 Genetics w/lab | 4 |
| Choose one of the following Physiology componen | ts: |
| BIO234/244 Human A&P I & II, labs (must take both | 8 |
| semesters to satisfy this category) OR | |
| BIO310 Animal Physiology | 3 |
| Choose one of the following Cellular components: | |
| BIO304 Microbiology w/lab | 4 |
| BIO330 Cell & Molecular Biology w/lab | 4 |
| Choose two of the following Chemistry component | s: |
| CHM314 Organic Chemistry I w/lab | 4 |
| CHM324 Organic Chemistry II w/lab | 4 |
| BIO4031 Biochemistry | 3 |
| Select additional classes from the list below to con | - |
| the minimum 20 upper division credits for the major | or: |
| BIO304 Microbiology w/lab | 4 |
| BIO330 Cell & Molecular Biology w/lab | 4 |
| SCI391,SCI481-3 Research or Internship (max 6 cr) | 1 |
| BIO443 Virology & Immunology | 3 |
| CHM314 Organic Chemistry I w/ lab | 4 |
| CHM324 Organic Chemistry II w/ lab | 4 |
| BIO4031 Biochemistry | 3 |

| BIOKINE | TICS CONCENTRATION | (40) |
|----------------|--|------|
| BIO234 | Human Anatomy & Physiology I w/ Lab | 4 |
| BIO244 | Human Anatomy & Physiology II w/ Lak | 4 |
| PHY215 | Physics I w/lab | 4 |
| PHY230 | Physics II w/lab | 4 |
| KIN323 | Motor Learning and Development | 3 |
| KIN343 | Biomechanics | 3 |
| KIN423 | Physiology of Exercise | 3 |
| PSY105 | General Psychology | 3 |
| Choose o | ne of the following [3] | |
| PSY205 | Lifespan Psychology | 3 |
| PSY275 | Abnormal Psychology | 3 |
| Choose at | least two of the following to complete | e a |
| minimum | of 20 upper division credits: | |
| KIN300-KI | N400 Kinesiology Elective | |
| Upper Div | rision Elective: BIO, CHM | |

| MINOR | IN BIOLOGY | (23) |
|-------------|--|------|
| satisfy req | ust be taken in conjunction with a major to uirements for a bachelor's degree. Some equirements also may be counted toward | |
| the appro | oriate General Education Requirements. | |
| BIO210 | Biology I with lab | 4 |
| BIO220 | Biology II with lab | 4 |
| CHM214 | General Chemistry I w/lab | 4 |

Elective hours must include 3 classes, of which 8 credits must be upper division and 1 class of which must include a lab component (minimum of 11 elective credits)

| l | compone | int (minimum of 11 elective credits) | |
|---|---------|---------------------------------------|---|
| | BIO234 | Anatomy and Physiology I w/lab | 4 |
| | BIO244 | Anatomy and Physiology II w/lab | 4 |
| | BIO283 | Ecology and Evolution | 3 |
| | BIO304 | Microbiology I w/lab | 4 |
| | BIO310 | Animal Physiology | 3 |
| | BIO312 | Plant Physiology | 3 |
| | BIO330 | Cell and Molecular Biology w/ lab | 4 |
| | BIO444 | Genetics w/lab | 4 |
| | SCI391 | Scientific Research Exp. (up to 6 cr) | 1 |
| | BIO4031 | Biochemistry | 3 |
| | BIO433 | Virology and Immunology w/Lab | 4 |
| 1 | | | |

| MINOR I | N CHEMISTRY | (22) |
|--------------|--|------|
| Minors mu | st be taken in conjunction with a major to | |
| satisfy requ | uirements for a bachelor's degree. Some | |
| of these re | quirements also may be counted toward | |
| the approp | riate General Education Requirements. | |
| CHM214 | General Chemistry I w/lab | 4 |
| CHM224 | General Chemistry II w/lab | 4 |
| CHM314 | Organic Chemistry I w/lab | 4 |
| CHM324 | Organic Chemistry II w/lab | 4 |
| CHM320 | Quantitative Analysis | 3 |
| BIO4031 | Biochemistry | 3 |