

**General Education**

**Foundations: (12 Credits)**

**Oral Communication (3 Credits)**

- COMJ 1010 Public Speaking

**Written Communication (3 Credits)**

- ENGL 1200 College Composition

**Quantitative Reasoning (3 Credits)**

- MATH 2320 Essentials of Calculus or MATH 2410 Calculus I

**Technological Literacy (3 Credits)**

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**Discoveries: (Credits 27)**

**Art/Humanities (9 Credits)**

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- \_\_\_\_\_
- \_\_\_\_\_

**Social Sciences (9 Credits)**

- PSYC 1000 Introduction to Psychology
- \_\_\_\_\_
- \_\_\_\_\_

**Natural Sciences & Technology (9 Credits)**

- CHEM 1108 General Chemistry I
- CHEM 1128 General Chemistry II
- \_\_\_\_\_

**Wellness & Personal Health: (3 Credits)**

- STAT 2020 Elements of Statistics

**Competencies:**

**Quantitative Applications**

- \_\_\_\_\_

**Applied Methodologies**

- \_\_\_\_\_

**Intercultural Fluency**

- \_\_\_\_\_

**Ethical Reasoning**

- BIOL 2010 Intro to Bioethics or PHIL 3220 Biomedical Ethics

**Information Literacy**

- \_\_\_\_\_

**Writing Intensive**

- BIOL 3326 General Microbiology and Any Course

**Keystone Experience**

- BIOL 4480 Topics in Field Biology or BIOL 4951 Internship in Biology or BIOL 4985 Biotechnology and DNA Methods or BIOL 4999 Research in Biology

**Program Requirements**

**Required Major Courses: (47 Credits)**

- BIOL 1400 Ecology & Evolution
- BIOL 1700 Introduction to Organismal Biology
- BIOL 1900 Intro to Cellular & Molecular Biology
- BIOL 2010 Intro to Bioethics or PHIL 3220 Biomedical Ethics
- BIOL 2202 Genetics
- BIOL 2810 Anatomy & Physiology I Lecture
- BIOL 2811 Anatomy & Physiology I Lab
- BIOL 3810 Anatomy & Physiology II Lecture
- BIOL 3811 Anatomy & Physiology II Lab
- BIOL 3326 General Microbiology
- BIOL 3330 Cell Biology
- PHYS 1500 General Physics I
- PHYS 1510 General Physics I Laboratory
- PHYS 1600 General Physics II
- PHYS 1610 General Physics II Laboratory
- CHEM 2200 Organic Chemistry I Lecture
- CHEM 2205 Organic Chemistry I Laboratory

**Related Electives: (13 Credits)**

Upper Level Courses in BIOL or CHEM and One or More of the Following: BIOL 4480 Topics in Field Biology or BIOL 4951 Internship in Biology or BIOL 4985 Biotechnology and DNA Methods or BIOL 4999 Research in Biology

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- \_\_\_\_\_
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**Free Electives: (18 Credits)**

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**Program Notes:** Additional classes will be required to meet specific requirements for professional schools. Many schools require English Composition II, additional Psychology and/or Sociology courses, and additional Chemistry courses (Chemistry minor recommended). These can be taken as Discoveries course and/or free electives.

## Suggested Four Year Course Sequence

### Year 1

#### Fall Semester

BIOL 1400 Ecology & Evolution  
ENGL 1200 College Composition  
CHEM 1108 General Chemistry I  
Any Course

#### Spring Semester

BIOL 1700 Introduction to Organismal Biology  
CHEM 1128 General Chemistry II  
PSYC 1000 General Psychology  
Tech Literacy  
Any Course

### Year 3

#### Fall Semester

BIOL 2810 Anatomy & Physiology I Lecture  
BIOL 2811 Anatomy & Physiology I Lab  
BIOL 3326 Microbiology or BIOL 2202 Genetics  
PHYS 1500 General Physics I  
PHYS 1510 General Physics I Laboratory  
STAT 2020 Elements of Statistics

#### Spring Semester

BIOL 3810 Anatomy & Physiology II Lecture  
BIOL 3811 Anatomy & Physiology II Lab  
Related Elective  
PHYS 1600 General Physics II  
PHYS 1610 General Physics II Laboratory  
Arts & Humanities

### Year 2

#### Fall Semester

BIOL 1900 Intro to Cellular & Molecular Biology  
CHEM 2200 Organic Chemistry I Lecture  
CHEM 2205 Organic Chemistry I Laboratory  
BIOL 2010 Intro to Bioethics or PHIL 3220 Biomedical Ethics  
COMJ 1010 Public Speaking

#### Spring Semester

BIOL 2202 Genetics or BIOL 3326 Microbiology  
MATH 2320 Essentials of Calculus or MATH 2410 Calculus I  
Social Science  
Any Course  
Arts & Humanities

### Year 4

#### Fall Semester

BIOL 3330 Cell Biology or Related Elective  
Related Elective  
Social Science  
Any Course  
Any Course

#### Spring Semester

BIOL 3330 Cell Biology or Related Elective  
Related Elective & Natural Sci & Tech  
Arts & Humanities  
Any Course

