

**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)**

- ENGL 2200 Reading and Writing

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**Social Sciences (9 Credits)**

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

- CHEM 1108 General Chemistry I

- CHEM 1128 General Chemistry II

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

- STAT 2020 Elements of Statistics

**Competencies:**

**Quantitative Applications**

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**Applied Methodologies**

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**Intercultural Fluency**

- \_\_\_\_\_

**Ethical Reasoning**

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**Information Literacy**

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**Writing Intensive**

- ENGL 2200 Reading and Writing and BIOL 3326 General Microbiology

**Keystone Experience**

- BIOL 4999 Research in Biology

**Program Requirements**

**Required Major Courses: (34 Credits)**

- BIOL 1400 Ecology & Evolution
- BIOL 1900 Intro to Cellular & Molecular Biology
- BIOL 2202 Genetics
- BIOL 3326 General Microbiology
- BIOL 3330 Cell Biology
- BIOL 4320 Molecular Biology
- BIOL 4260 Cell Physiology
- BIOL 4985 Biotechnology and DNA Technology
- BIOL 4999 Research in Biology
- PHYS 1500 General Physics I
- PHYS 1510 General Physics I Laboratory
- PHYS 1600 General Physics II Lecture
- PHYS 1610 General Physics II Laboratory
- CHEM 2200 Organic Chemistry I Lecture
- CHEM 2205 Organic Chemistry I Laboratory

**Related Electives: (13 Credits)**

Up to 13 Credits of Upper Level Courses in BIOL or CHEM

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

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**Program Notes:** Chemistry minor recommended

## 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 1900 Intro to Cellular & Molecular Biology  
CHEM 1128 General Chemistry II  
Social Science  
Tech Literacy  
Any Course

### Year 3

#### Fall Semester

BIOL 3326 Microbiology  
BIOL 4320 Molecular Biology or Related Elective  
PHYS 1500 General Physics I  
PHYS 1510 General Physics I Laboratory  
Any Course

#### Spring Semester

BIOL 4835 Biotechnology and DNA Technology or Related Elective  
BIOL 4320 Molecular Biology or Related Elective  
PHYS 1600 General Physics II  
PHYS 1610 General Physics II Laboratory  
Social Science

### Year 2

#### Fall Semester

BIOL 2202 Genetics or BIOL 3330 Cell Biology  
CHEM 2200 Organic Chemistry I Lecture  
CHEM 2205 Organic Chemistry I Laboratory  
Arts & Humanities  
STAT 202 Elements of Statistics

#### Spring Semester

BIOL 2202 Genetics or BIOL 3330 Cell Biology  
MATH 2320 Essentials of Calculus or MATH 2410 Calculus I  
COMJ 1010 Public Speaking  
Arts & Humanities  
Any Course

### Year 4

#### Fall Semester

BIOL 4835 Biotechnology and DNA Technology or Related Elective  
BIOL 4260 Cell Physiology  
BIOL 4999 Research or Related Elective  
Any Course

#### Spring Semester

BIOL 4999 Research or Related Elective  
Related Elective & Natural Sci & Tech  
Arts & Humanities  
Social Science  
Any Course

