B.S. in Microbiology, Microbial Ecology concentration – four-year graduation plan

This is an example of a four-year graduation plan for a degree in Microbiology, concentration in Microbial Ecology (choosing advanced chemistry). Courses marked with * are electives within the major; other choices are available.

### Year 1

#### Autumn
- BIOB 160N/161N—Principles Living Systems/Lab (4)
- CHMY 141N/142N—College Chemistry I/Lab (5)
- M 171—Calculus I (4) *or M 162 Applied Calculus*
- Freshman Experience (1)

**Total: 14 credits**

#### Spring
- BIOB 170N/171N—Biological Diversity/Lab (5)
- CHMY 143N/144N—College Chemistry II/Lab (5)
- WRIT 101—College Writing I (3)
- General Education Requirement (3)

**Total: 16 credits**

### Year 2

#### Autumn
- BIOB 260—Cell and Molecular Biology (4)
- CHMY 221/222—Organic Chemistry I/Lab (5)
- BIOM 360/361—General Microbiology/Lab (5)

**Total: 14 credits**

#### Spring
- BIO 272—Genetics and Evolution (4)
- CHMY 223/224—Organic Chemistry II/Lab (5)
- Intermediate Writing Course (3)
- General Education Requirement (3)

**Total: 15 credits**

### Year 3

#### Autumn
- BIOE 370—General Ecology (3)
- *BIOE 371—General Ecology Lab (2)*
- *BIOM 427/428—General Parasitology/Lab (4)*
- STAT 216—Intro to Statistics (4)
- *CSCI 100—Intro to Programming (3)*

**Total: 16 credits**

#### Spring
- BIOM 415—Microbial Diversity, Ecol, Evolution (3)
- PHSX 205N/206N—College Physics I/Lab (5)
- *NRSM 210N—Soils, Water & Climate (3)*
- General Education Requirement (3)

**Total: 14 credits**

### Year 4

#### Autumn
- BIOM 450/451—Micro Phys/Lab (4): **offered odd fall**
- BCH 380—Biochemistry (4)
- General Education Requirement (3)
- Upper Division Elective (4)

**Total: 15 credits**

#### Spring
- *BIOM 435—Virology (3)*
- BIOM 410/411—Microbial Genetics/Lab (4)
- General Education Requirements (6)
- Upper Division Elective (3)

**Total: 16 credits**

*Eligibility depends on placement exams*
*See catalog or Biology Advising Office for details on alternative course choices.*