# B.S. in Microbiology
## 2018/2019 Catalog

## Required Major Courses (C- or Better)

### Biology/Microbiology Core Courses—All Required
- BIOB 160N/161N—Principles of Living Systems/Lab (3/1) - autumn, summer
- BIOB 170N/171N—Principles of Biological Diversity/Lab (3/2) - spring, summer
- BIOB 260—Cell and Molecular Biology (4) - autumn, summer
- BIOB 272—Genetics and Evolution (4) - spring

### Microbiology Major Courses—All Required
- BIOM 360/361—General Microbiology/Lab (3/2) - autumn
- BIOM 410/411—Microbial Genetics/Lab (3/1) - spring
- BIOM 415—Microbial Diversity, Ecology, & Evolution (3) - spring
- BIOM 450/451—Microbial Physiology/Lab (3/1) - autumn

### Biochemistry—Choose Basic or Advanced Sequence
**Basic:**
- BCH 380—Biochemistry (4) - autumn, spring

**Advanced:**
- BCH 480—Adv. Biochemistry I (3) - autumn
- *BCH 482—Adv. Biochemistry II (3) - spring

### Microbiology Depth—Choose 10 or 12 Credits from the Following (10 if BCH 480-482); (12 if BCH 380); Labs Required
- *BIOB 410/411—Immunology/Lab (3/2) - autumn
- *BIOB 483—Phylogenetics & Evoln (3) - intermittent
- BIOE 370—General Ecology (3) - autumn
- BIOH 405—Hematology (3) - autumn
- *BIOM 402/403—Med Bacteriology/Lab (3/2) - spring
- BIOM 407/408—Clinical Diagnosis (2/1) - spring
- BIOM 427/428—Parasitology/Lab (2/2) - autumn
- BIOM 435—Virology (3) - spring
- BIOM 490—Advanced Undergrad Research

### Required Courses Outside of the Major (C- or Better)

### Calculus—Choose One of the Following
- M162—Applied Calculus (4) - autumn, spring
- M171—Calculus I (4) - autumn, spring

### Statistics—Required
- STAT 216—Intro to Statistics (4) - autumn, spring, summer

### Chemistry—All Required
- CHMY 141N/142N—College Chemistry I/Lab (4/1) - autumn, spring
- CHMY 143N/144N—College Chemistry II/Lab (4/1) - spring, summer
- CHMY 221/222—Organic Chemistry I/Lab (3/2) - autumn
- CHMY 223/224—Organic Chemistry II/Lab (3/2) - spring
- CHMY 311—Analytical Chemistry (4) - autumn

### Physics—All Required
- PHSX 205N/206N—College Physics I/Lab (4/1) - autumn, spring, summer [or PHSX 215N/216N]
- PHSX 207N/208N—College Physics II/Lab (4/1) - autumn, spring, summer [or PHSX 217N/218N]

*Advanced college writing requirement met with BIOM 411 (required), and one course marked with *