# B.S. in Microbiology
## 2016/2017 Catalog

### Required Major Courses (C- or Better)

#### Biology/Microbiology Core Courses—All Required
- BIOB 160N/161N—Principles of Living Systems/Lab (4) - autumn, summer
- BIOB 170N/171N—Principles of Biological Diversity/Lab (5) - spring, summer
- BIOB 260—Cell and Molecular Biology (4) - autumn, summer
- BIOB 272—Genetics and Evolution (4) - spring

#### Microbiology Major Courses—All Required
- BIOE 370—Ecology (3) - autumn
- BIOM 360/361—General Microbiology/Lab (5) - autumn
- BIOM 410/411—Microbial Genetics/Lab (4) - spring
- BIOM 415—Microbial Diversity, Ecology, & Evolution (3) - spring
- BIOM 450/451—Microbial Physiology/Lab (4) - 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 7 – 9 Credits from the Following (7 if BCH 480–482; 9 if BCH 380): Labs Required

- *BIOB 410/411—Immunology/Lab (5) - autumn
- *BIOB 483—Phylogenetics & Evolution (3) - intermittent (S17)
- BIOH 405—Hematology (3) - autumn
- *BIOM 402/403—Med Bacteriology/Lab (5) - spring
- BIOM 407/408—Clinical Diagnosis (3) - spring
- BIOM 427/428—Parasitology/Lab (4) - autumn
- BIOM 435—Virology (3) - spring
- BIOM 490—Advanced Undergrad Research

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

#### Mathematics—All Required
- M 162—Applied Calculus (4) - autumn, spring [or M171 — Calculus I]
- STAT 216—Intro to Statistics (4) - autumn, spring, summer

#### Chemistry—All Required
- CHMY 141N—College Chemistry I (5) - autumn, spring
- CHMY 143N—College Chemistry II (5) - spring, summer
- CHMY 221/222—Organic Chemistry I/Lab (5) - autumn
- CHMY 223/224—Organic Chemistry II/Lab (5) - spring
- CHMY 311—Analytical Chemistry (4) - autumn

#### Physics—All Required
- PHSX 205N/206N—College Physics I/Lab (5) - autumn, spring, summer [or PHSX 215N/216N]
- PHSX 207N/208N—College Physics II/Lab (5) - autumn, spring, summer [or PHSX 217N/218N]

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