# B.S. in Biology, Cellular & Molecular Biology Option
## 2019/2020 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

### Cellular & Molecular Major Courses—All Required
- BCH 480—Advanced Biochemistry I (3) - autumn
- BCH 482—Advanced Biochemistry II (3) - spring
- BIOL 301—Developmental Biology (3) - autumn
- BIOL 375—General Genetics (3) - spring
- BIOL 425—Advanced Cell & Molecular Biology (3) - spring
- BIOM 360/361—General Microbiology/Lab (3/2) - autumn

### Disease Elective—Choose One of the Following
- *BIOB 410—Immunology (3) - autumn
- BIOM 435—Virology (3) - spring

### Cellular & Molecular Depth—Choose One of the Following
- BIOL 468—Endocrinology (3) - intermittent
- *BIOB 483—Phylogenetics & Evoln (3) - odd spring (S21)
- BIOL 486—Genomics (3) - autumn
- BIOL 435—Comp Animal Physiology (3) - spring
- *BIOO 433/434—Plant Physiology/Lab (4) - spring

### Laboratory Experience—Choose Two of the Following
- *BCH 486—Biochem Research Lab (3) - spring
- *BIOL 411—Immunology Lab (2) - autumn
- *BIOM 411—Microbial Genetics Lab (1) - spring
- BIOM 451—Microbial Physiology Lab (1) - autumn
- 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

### 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]

### 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

### Chemistry Depth—Choose At Least One of the Following
- CHMY 311—Analytical Chemistry (4) - autumn
- CHMY 373—Physical Chemistry (4) - autumn

*Advanced College Writing Requirement Met with BCH 482, BIOB 425 (Both Required), and one course marked with *