# B.S. IN BIOLOGY, CELLULAR & MOLECULAR BIOLOGY OPTION
## 2017/2018 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

### CELLULAR & MOLECULAR MAJOR COURSES—ALL REQUIRED
- BCH 480—Advanced Biochemistry I (3) - autumn
- BCH 482—Advanced Biochemistry II (3) - spring
- BIOB 301—Developmental Biology (3) - autumn
- BIOB 375—General Genetics (3) - spring
- BIOB 425—Advanced Cell & Molecular Biology (3) - autumn
- BIOM 360/361—General Microbiology/Lab (5) - 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
- BIOB 440—Biol Electron Microscopy (2) - intermittent
- BIOB 468—Endocrinology (3) - intermittent (S18)
- *BIOB 483—Phylogenetics & Evoln (3) - intermittent
- BIOB 486—Genomics (3) - autumn
- *BIOB 433/434—Plant Physiol/Lab (4) - spring

### LABORATORY EXPERIENCE—CHOOSE TWO OF THE FOLLOWING
- *BCH 486—Biochem Research Lab (3) - spring
- *BIOB 411—Immunology Lab (2) - autumn
- *BIOM 411—Microbial Genetics Lab (1) - spring

## REQUIRED COURSES OUTSIDE OF THE MAJOR (C- OR BETTER)

### CALCULUS & PHYSICS—ALL REQUIRED
- M 162—Applied Calculus (4) - autumn, spring [or substitute M171 — Calculus I]
- PHSX 205N/206N—College Physics I/Lab (5) - autumn, spring, summer [or substitute PHSX 215N/216N]
- PHSX 207N/208N—College Physics II/Lab (5) - autumn, spring, summer [or substitute PHSX 217N/218N]

### CHEMISTRY—ALL REQUIRED
- CHMY 141N/142N—College Chemistry I/Lab (5) - autumn, spring
- CHMY 143N/144N—College Chemistry II/Lab (5) - spring, summer
- CHMY 221/222—Organic Chemistry I/Lab (5) - autumn
- CHMY 223/224—Organic Chemistry II/Lab (5) - spring

### CHEMISTRY DEPTH—CHOOSE AT LEAST ONE OF THE FOLLOWING
- CHMY 311—Analytical Chemistry (4) - autumn
- CHMY 360—Applied Physical Chem. (3) - spring
- CHMY 373—Physical Chemistry (4) - autumn

*ADVANCED COLLEGE WRITING REQUIREMENT MET WITH BCH 482, BIOB 425 (BOTH REQUIRED), AND ONE COURSE MARKED WITH *