## B.S. IN BIOLOGY, CELLULAR & MOLECULAR BIOLOGY OPTION
**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

#### 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) - 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
- **BIOB 440**—Biol Electron Microscopy (2) - intermittent
- **BIOB 468**—Endocrinology (3) - intermittent
- *BIOB 483*—Phylogenetics & Evoln (3) – inter. (S19)
- **BIOB 486**—Genomics (3) - autumn
- *BIOB 433/434*—Plant Physiology/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—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
- **CHMY 360**—Applied Physical Chem. (3) - spring

*Advanced college writing requirement met with BCH 482, BIOB 425 (both required), and one course marked with *