### 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

#### MICROBIAL ECOLOGY MAJOR COURSES—ALL REQUIRED
- BIOE 370—General 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

#### MICROBIAL ECOLOGY DEPTH—CHOOSE 7 – 9 CREDITS FROM THE FOLLOWING (7 IF BCH 480-482; 9 IF BCH 380); LABS REQUIRED
- *BIOE 410/411—Immunology/Lab (5) - autumn
- *BIOE 440—Biol Electron Microscopy (2) - spring
- *BIOE 371—Ecology Lab (2) - autumn
- *BIOE 428—Freshwater Ecology (5) - spring
- BIOE 439—Stream Ecology (3) - summer (FLBS)
- BIOE 453—Lake Ecology (3) - summer (FLBS)
- BIOM 427/428—Parasitology/Lab (4) - autumn
- BIOM 435—Virology (3) - spring
- BIOM 490—Advanced Undergrad Research
- BIOO 433/434—Plant Physiology/Lab (4) - spring

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

#### MATHEMATICS & PHYSICS—ALL REQUIRED
- M 162—Applied Calculus (4) - autumn, spring [or substitute M171 – Calculus I]
- STAT 216—Intro to Statistics (4) - autumn, spring, summer
- PHSX 205N/206N—College Physics I/Lab (5) - autumn, spring, summer [or substitute PHSX 215N/216N]

#### CHEMISTRY—CHOOSE INTRO OR ADVANCED SEQUENCE
- **INTRO:** CHMY 121N—Intro General Chemistry (3)
  - CHMY 123/124—Intro Organic/Biochem (5) (both offered autumn, spring, summer)
- **ADVANCED:** CHMY 141N/142N—College Chem I/Lab (5) - aut, spr
  - CHMY 143N/144N—College Chem II/Lab (5) - spr, sum
  - CHMY 221/222—Organic Chem I/Lab (5) - autumn
  - CHMY 223/224—Organic Chem II/Lab (5) - spring

#### SCIENCE ELECTIVES—CHOOSE AT LEAST 6 CREDITS FROM THE FOLLOWING
- CHMY 311—Analytical Chemistry (4) - autumn
- CSCI 135—Fund of Comp Science I (3) - autumn, spring
- GEO 420—Hydrogeology (4) - spring
- GEO 482—Global Change (3) - intermittent
- M 172—Calculus II (4) - autumn, spring
- M 273—Multivariable Calculus (4) - autumn, spring
- NRSN 210N—Soils, Water & Climate (3) - spring
- PHSX 207/208—College Physics II/Lab (5) [or 217/218]
- STAT 451/457—Statistical Methods I (4) - autumn
- STAT 452/458—Statistical Methods II (4) - spring

*ADVANCED COLLEGE WRITING REQUIREMENT MET WITH BIOM 411 (REQUIRED), AND ONE COURSE MARKED WITH *