In addition to the requirements listed for the Microbiology program, the following three choices must be completed:

1. **CHM 26505** Organic Chemistry (3 cr.; fall) and **CHM 26300** Organic Chemistry Lab (1 cr.; fall) and **CHM 26605** Organic Chemistry (3 cr.; spring) and **CHM 26400** Organic Chemistry Lab (1 cr.; spring)
2. **C S 15800** C Programming (3 cr.; both) or **C S 17700** Programming with Multimedia Objects (4 cr.; both)
3. **MA 26100** Multivariate Calculus (4 cr.; both)

and at least three of the following five choices must be completed:

1. **PHYS 17200** Modern Mechanics (4 cr.; both) and **PHYS 27200** Electric and Magnetic Interactions (4 cr.; both)
2. **CHM 32100** Analytical Chemistry (4 cr.; fall)
3. **One of these two options:**
   A. **CHM 37200** Physical Chemistry (4 cr.; spring)
   B. **CHM 37300** Physical Chemistry (3 cr.; fall) and **CHM 37400** Physical Chemistry (4 cr.; spring)
4. **STAT 50300** Statistical Methods for Biology (3 cr.; both)
5. **MA 26200** Linear Algebra and Differential Equations (4 cr.; both)
CHEMISTRY
1. CHM 11500 General Chemistry (4 cr.; both)
2. CHM 11600 General Chemistry (4 cr.; both)

3. One of these three options:
   A. CHM 25500 Organic Chemistry (3 cr.; both) and CHM 25501 Organic Chemistry Lab (1 cr.; both) and
      CHM 25600 Organic Chemistry (3 cr.; both) and CHM 25601 Organic Chemistry Lab (1 cr.; both)
   B. CHM 26505 Organic Chemistry (3 cr.; fall) and CHM 26300 Organic Chemistry Lab (1 cr.; fall) and
      CHM 26605 Organic Chemistry (3 cr.; spring) and CHM 26400 Organic Chemistry Lab (1 cr.; spring)
   C. CHM 25700 Organic Chemistry (4 cr.; both) and CHM 25701 Organic Chemistry Lab (1 cr.; both) and one of:
      CHM 33300 Principles of Biochemistry (3 cr.; both) or BCHM 30700 Biochemistry (3 cr.; both)

PHYSICS
One of these two options:
1. PHYS 22000 General Physics (4 cr.; both) and PHYS 22100 General Physics (4 cr.; both)
2. PHYS 17200 Modern Mechanics (4 cr.; both) and one of the following two choices:
   A. PHYS 27200 Electric and Magnetic Interactions (4 cr.; both) or
   B. PHYS 24100 Electricity and Optics (3 cr.; both) and PHYS 25200 Electricity and Optics Laboratory (1 cr.; spring)

COLLEGE OF SCIENCE CORE REQUIREMENTS
Composition and Presentation; Teambuilding and Collaboration; Language and Culture; Great Issues; General Education;
Multidisciplinary Experience; Mathematics; Statistics; Computing (see handout).

FREE ELECTIVES
Approximately 1-24 credits