**GENERAL BIOLOGY MAJOR (B.S.)**

A minimum of **21 units** with the following distribution:

1. **Foundation requirements – 4 units, all as follows:**
   - BI 213 *Cells, Genes and Evolution* (fall & spring)
   - BI 215 *Biodiversity and Ecology* (fall & spring) (prerequisite: BI 213)
   - BI 217 *Forms and Functions of Life* (fall & spring) (prerequisite: BI 213)
   - BI 221 *Biostatistics and Experimental Design* (fall & spring)

2. **Upper level requirements – 2 units, both as follows:**
   - BI 350 *Cell Physiology* (fall) (prerequisites: all four foundation courses; CH 112)
   - BI 360 *Molecular Genetics* (spring) (prerequisites: BI 213, 217; CH 112)

3. **Major Core requirements – 4 units with lab, 300-level or higher, from the following:**
   - BI 304 *Animal Behavior* (fall even years) (prerequisites: BI 213, and BI 215 or PS 101)
   - BI 323 *Basic Medical Histology* (fall) (prerequisites: BI 213, 215, 217)
   - BI 340 *Electrophysiology* (spring even years) (prerequisites: BI 213, 215, 217)
   - BI 412 *Developmental Biology* (spring odd years) (prerequisites: BI 213, 215, 217 and CH 112)
   - BI 493 *Undergraduate Research* (permission of instructor required) (prerequisites: BI 213, 215, 217)
   - BI 492 *Ecological and Evolutionary Theory* (spring) (BI 213, 215, 360)

4. **Upper level electives – 2 units, from the following:**
   - 2 units 300-level or higher
   - 1 unit 300-level or higher & 1 unit Physical Science or Math
   - Research Track (BI493, BI 494)

5. **Cognate Courses – 7 units: 4 units in Chemistry, 2 units in Physics, and 1 unit in Math:**
   - CH 111 *General Chemistry I* (fall)
   - CH 112 *General Chemistry II* (spring) (prerequisite: CH 111)
   - CH 211 *Organic Chemistry I* (fall) (prerequisites: CH 111, 112)
   - CH 212 *Organic Chemistry II* (spring) (prerequisite: CH 211)
   - MA 121 *Analytic Geometry & Calculus I* (fall, spring)
   - PY 131 *Elements of Physics I* (fall)
   - PY 132 *Elements of Physics II* (spring) (prerequisite: PY 131)
   - or PY 141 *General Physics I* (fall) (co-requisite: MA 121)
   - PY 142 *General Physics II* (spring) (prerequisite: PY 141, MA 122)
6. Senior Learning Community – 2 units:
   _____ BI 400E Experiential Component (fall, spring, summer) (zero units) (permission of SLC coordinator required)
   _____ BI 400 Senior Thesis in Biological Sciences (fall, spring) (prerequisite: BI 400E)
   
   CHOOSE ONE:
   _____ MCB 491 Advances in Molecular & Cellular Biochemistry (spring)
   _____ MI 491 Advances in Microbiology & Immunology (spring)
   _____ NS 491 – Advances in Neuroscience (spring)

COMBINED BIOLOGY MAJOR/CHEMISTRY MINOR

18 units required for the major in Biology (shown above)
And any two additional units in Chemistry above Chemistry 212