

BIOLOGY MAJOR (B.S.)

A minimum of 18 units with the following distribution:

1. Foundation requirements - all 5 of the following:

- _____ 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 219 *Gene Expression and Development* (fall & spring) (prerequisite: BI 213)
- _____ BI 221 *Biostatistics and Experimental Design* (fall & spring)

2. Upper level requirements - both of the following:

- _____ BI 311 *Genetics* (fall) (prerequisites: all five foundation courses; CH 112)
- _____ BI 333 *Animal Physiology* (fall) (prerequisites: BI 213, 215, 217, 219; CH 112)

3. Upper level electives - 3 units chosen from the following:

- _____ BI 304 *Animal Behavior* (fall of even-numbered years) (prerequisites: BI 213, and BI 215 or PS 101)
- _____ BI 306 *Neuroanatomy & Neurophysiology* (spring) (prerequisites: BI 213, 215, 217, 219)
- _____ BI 312 *Comparative Vertebrate Anatomy* (fall of odd-numbered years) (prerequisites: BI 213, 215, 217, 219)
- _____ BI 316 *Invertebrate Zoology* (offered as needed) (prerequisites: BI 213, 215, 217, 219)
- _____ BI 319 *General Botany* (offered as needed) (prerequisites: BI 213, 215, 217, 219)
- _____ BI 323 *Basic Medical Histology* (fall) (prerequisites: BI 213, 215, 217, 219)
- _____ BI 335 *Natural History of the Mid-Atlantic States* (summer) (prerequisite: BI 215)
- _____ BI 412 *Developmental Biology* (spring odd years) (prerequisites: BI 213, 215, 217, 219 and CH 112)
- _____ BI 493 *Undergraduate Research* (permission of instructor required) (prerequisites: BI 213, 215, 217, 219)
- _____ BI 492 or 496 if not used as a Capstone Course (see below)
- _____ CH 517 *Biochemistry I* (fall) (prerequisite: CH 211)
- _____ MI xxx Any 300-level or higher Microbiology Course

4. Six Units in Chemistry and Physics:

- _____ 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)
- _____ 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)

5. One Unit in Math

_____ MA 121 *Analytic Geometry & Calculus I* (fall, spring)

6. Senior Learning Community:

_____ BI 400E *Research for Senior Thesis* (fall, spring, summer) (zero units) (permission of SLC coordinator required)

_____ BI 400(W) *Senior Thesis* (fall, spring) (prerequisite: BI 400E)

7. Capstone Course:

_____ BI 492 *Ecological and Evolutionary Theory* (spring) (prerequisites: Senior status or permission of the instructor required; Biology 213, 215, 311; Math 121 strongly recommended)

_____ BI 496 *Molecular Cell Biology* (spring) (prerequisites: Senior status or permission of the instructor required. Biology 213, 219)

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