Biology Major Requirements

**PRE- & CO-REQUISITES (or demonstrated proficiency)**

For the B.S. Degree:

- CHM 101DL [or 21 or 110DL]
- MTH 111L [or 105L&106L or 21/121]
- MTH 112L [or 122L or 22/122]
- or STA 101 or above or BIO 304 or EvAnth 585*
  *cannot double count BIO 304 or EvAnth 585 as elective if used to fulfill math requirement
- CHM 201DL
- PHY 141L [or 161L or 151L or 25 or 142L]

Note: CHM 210DL, CHM 202L & PHY 142L recommended for pre-med, pre-vet, biochem, pharmacology, others

For the A.B. Degree:

- CHM 101DL [or 21 or 110DL]
- MTH 105L
- AND
- MTH 106L [or Math 111L or Math 21]
- or STA 101 or above or BIO 304 or EvAnth 585*
  *cannot double count BIO 304 or EvAnth 585 as elective if used to fulfill math requirement

**GATEWAY COURSES IN BIOLOGY (2 or 1 courses)**

- Biology 201L, Molecular Biology (prereq: Chem 101DL or equivalent)
- Biology 202L, Genetics & Evolution

**OR**

- Biology 203L, Molecular Biology, Genetics & Evolution (prereq: BIO AP 5 & Chem 101DL or equivalent)

**BIOLOGY AREA MENUS (3 courses) — see menus on reverse**
- 1 approved course in each area, at the 200-level or above.
- A course listed in two areas may only be used to meet one area requirement.

- Organismal Diversity
- Structure/Function: Cells & Organisms
- Ecology

**BIOLOGY ELECTIVES (5 or 6 courses)**
- At least 3 electives must be in courses listed or cross-listed as Biology at the 200-level or above. This may include BCH 301 and a max of 2 approved Independent Study (BIO, BIOCHEM, PHARM, PATH, NEUROBIO, CELLBIO, IMM, MGM).
- A maximum of 2 independent studies or tutorials may count toward the major.
- A maximum of 2 or 3 approved alternate electives in the biological sciences may be counted toward the major (depending on Gateway sequence).

- Biology Elective
- Biology Elective
- Biology Elective or approved alternate
- Biology Elective or approved alternate

If using Bio 203L:

- Biology Elective or approved alternate

**THE AREA AND ELECTIVE COURSES ABOVE MUST INCLUDE:**

1) At least two full lab courses, beyond the Gateways. Only one Independent study may count as a lab course.

   Lab 1  Lab 2

2) At least one full Biology ‘Capstone’ at the 400-level or above. Independent Study can only count towards this requirement if it is a second semester continuation with the same research supervisor.

   ‘Capstone’ Course _____