

BIOLOGY MAJOR REQUIREMENTS

for classes matriculating Fall 2020 and onwards (updated April 2020)

Major Requirements

- 31 total credit hours* in Biology (BI or cross-listed BC, ES, SC, etc.)
- BI163 Cellular Basis of Life and BI164 Evolution and Diversity
- A field biology course with lab: BI211, BI237, BI257j, BI259j, BI271, BI277, BI334; ES58j
- A cell biology course with lab: BI225, BI227, BI248, BI274, BI279, BI332; BC367
- A total of six biology courses with labs*
- Two biology courses at 300 level or above
- BI401 or 402 Senior Seminar
- CH141 and CH142 or CH121 and CH122 or CH147
- MA121 or MA161 (or equivalent) Calculus
- One more quantitative course: CS151, CS152; MA122, MA162, SC212, MA253

Concentration Requirements

(concentrations are optional; courses taken are counted toward the major requirements)

Cellular, Molecular Biology, and Biochemistry (CMBB)

- BI279 Genetics
- BC367 and BC368 Biochemistry
- BC378 Molecular Biology
- CH241 and CH242 Organic Chemistry
- PH141 and PH145 Physics
- One of the following cell or molecular-level courses:
BI214, BI225, BI227, BI246, BI247, BI248, BI278, BI329, BI332, BI351, BI371

Neuroscience

- BI274 Neurobiology
- Two of the following cell or tissue-level courses:
BI225, BI227, BI265, BI275, BI279, BI332, BI373, BI374
- PS111 Intro to Psychology
- One Psychology course from the following: PS232, PS233, PS242, PS272, PS352, PS374
- One additional Psychology course at the 200-level or above

Ecology and Evolution (BIEE)

- BI271 Ecology
- BI320 Evolutionary Analysis
- BI328 Community Ecology or BI382 Ecological Modeling
- An organismal or taxonomy-based course with lab: BI211, BI237, BI248, BI276, BI277, BI334
- SC212 Intro to Statistics

*Up to four credits of Independent Study (Biology 491, 492) may be applied to the major, and does not count as a laboratory course. If more than four credit hours are taken in Biology, these will be non-graded and will not count toward the major.