

BIOLOGY MAJOR REQUIREMENTS

for classes matriculating Fall 2022 and onwards (updated Fall 2022)

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; ES358j
- A cell biology course with lab: BI215, BI225, BI227, BI248, BI274, BI279, BI332, BI397; 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
- One of the following calculus course or equivalent MA119 and MA120; MA125, MA130, MA135
- One more quantitative course: CS151, CS152, CS153; MA160, MA165, MA253; SC212; EC293, PS214, SO271

Concentration Requirements: Concentrations are optional. Only one concentration may be declared. 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:
BI215, BI225, BI227, BI246, BI247, BI248, BI278, BI329, BI332, BI351, BI371, BI397

Neuroscience

- BI274 Neurobiology
- Two of the following animal-based cell-, tissue-, or organismal-level courses:
BI215, BI225, BI227, BI265, BI275, BI276, BI277, BI279, BI325, BI332, BI334, BI373, BI374, BI376, BI392, BI397
- PS111 Intro to Psychology
- One Psychology course from the following: PS232, PS233, PS234, PS242, PS244, PS272, PS349, 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 Population Modeling
- An organismal or taxonomy-based course with lab: BI211, BI237, BI248, BI276, BI277, BI334
- SC212 Intro to Statistics

COMPUTATIONAL BIOLOGY MAJOR REQUIREMENTS

see: <https://hackmd.io/@aphanotus/CompBioMajor>
for the most updated requirements and notes on past requirements

Major Requirements

- BI163 and BI164
- CS151 or CS152
- MA125 or MA130 and MA160
- BI278 and BI279
- SC212
- CS231 and CS251 or CS252
- MA253 or MA262
- two courses from the following list (CS341, CS441, CS343, CS443, CS346, CS446)
- two courses from the following list (BI320, BI345, BI371J, BI376, BI378, BI382)