**BIOLGY MAJOR REQUIREMENTS**  
for classes matriculating Fall 2020 and onwards (updated fall 2020)

### Major Requirements
- ☐ 31 total credit hours* in Biology (Biology 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: 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 animal-based cell-, tissue-, or organismal-level courses:  
  BI225, BI227, BI265, BI275, BI276, BI277, BI279, BI325, BI332, BI334, BI373, BI374, BI376, BI392
- ☐ 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.*
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**Computational Biology Major Requirements**

see: [https://hackmd.io/@aphanotus/CompBioMajor](https://hackmd.io/@aphanotus/CompBioMajor)

for the most updated requirements and notes on past requirements

**Major Requirements**

☐☐ BI163 and BI164
☐ CS151 or CS152
☐☐ MA121 and MA 122
☐☐ BI278 and BI279
☐ SC212
☐☐ CS231 and CS251
☐ ☐ 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)

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