

Major requirements: BIOLOGY – Biological Sciences Concentration

Required courses in Biology

- _____ BIOL 130 General Biology I¹
- _____ BIOL 131 General Biology II ^{1,2}
- _____ BIOL 211 Plant Biology
- _____ BIOL 320 Genetics
- _____ BIOL 477 Biology Capping

14 credits minimum (4 classes minimum) in BIOL courses numbered 300-400 not including internships or research; two must be traditional 4-credit classes that have labs

- 1
- 2
- 3
- 4

Required courses in Related Fields

- _____ PHIL 200 Ethics or a Bioethics class (preferred) - satisfies C/LS Ethics & Justice requirement
- _____ MATH 130 Intro to Statistics I
- _____ MATH 241 Calculus I **OR** MATH131 Intro to Statistics II
- _____ CHEM 111 & 115 General Chemistry I & lab
- _____ CHEM 112 & 116 General Chemistry II & lab

- _____ CHEM 201 & 202 Principles of Organic Chemistry & Lab
- OR**
- _____ CHEM 211, 212, 215 & 216
Organic Chemistry I & lab³
Organic Chemistry II & lab³

8 additional credits in related fields – one must be a 4-credit class that has a lab (and is not Research or an Internship or a MATH class) – If you take three 4-credit BIOL classes to satisfy the Biology Electives, then you do not have to take a 4-credit lab class in this group

BIOL courses for which BIOL130-131 are prerequisites and are not used to satisfy other requirements for the major.

Note: Students who take BIOL201 and/or BIOL202 for credit may not then take BIOL340 and/or BIOL440 for credit, and students who take BIOL340 and/or BIOL440 for credit may not then take BIOL201 and/or BIOL202 for credit. **BIOL201 and/or 202 do NOT count as satisfying the requirements for BIOL classes at the 300-400 level.**

Science internships and research (4-credit maximum and do not count as the class with a lab) - note that all BIOL research credits require an oral presentation summarizing the accomplishments of the student's research at the end of the semester in which the credits were earned

PHYS 201 & 202 College Physics I & II **OR** PHYS 211 & 212 General Physics I & II

PHYS 213 & 214 General Physics I & II Labs

CHEM courses for which CHEM 111-112 are prerequisites and are not used to satisfy other requirements for the major.

ENSC 210 & 212 Intro Geology & Lab (may take the lecture without the lab)

ENSC 230 Intro to Geographic Info Systems

ENSC 310 & 309 Environ Chemistry & Lab (may take the lecture without the lab)

ENSC 315 Natural History of the Hudson Valley

ENSC 313 Environmental Microbiology

ENSC 337 Freshwater Ecology

ENSC 330 Advanced GIS

ENSC 404 Toxicology

ANTH 101 Intro to Physical Anthropology

MEDT courses numbered 200-400 worth 4 credits (only 4-credit courses)

MATH courses numbered above 131 and are not used to satisfy other requirements of the major

Any HLTH class that has BIOL130-131 as a prerequisites

HLTH 202 or HLTH 206 (either, but not both)

Total Credits in the major = 62-67

In order to meet graduation requirements, the student must have a minimum GPA of 2.0 in all BIOL courses taken to satisfy the major, a minimum GPA of 2.0 in all courses taken to satisfy the major, and an overall minimum GPA of 2.0.

Note: Students who take BIOL201 and/or BIOL202 for credit may not then take BIOL340 and/or BIOL440 for credit, and students who take BIOL340 and/or BIOL440 for credit may not then take BIOL201 and/or BIOL202 for credit.

Checklist – C/LS course requirements

_____ FYS 101 – First Year Seminar

Transfer students bringing in 24 or more credits are exempt from FYS

_____ ENG 112 Writing for College

_____ PHIL 101 Philosophical Perspectives

Transfer students bringing in 24 or more credits must take PHIL 103 World Views and Values

_____ PHIL 200 Ethics or 392 Bioethics (preferred) - (must take **before** capping – BIOL 477)

_____ History

_____ Literature

_____ Social Science

_____ Fine Art (the class must have an L designation)

_____ Technology Requirement

Pathway _____

_____ Course #1 _____

_____ Course #2 _____

_____ Course #3 _____

_____ Course #4 _____

Transfer students who bring in 36 or more credits are exempt from the Pathway requirement.

All students must also complete a minimum of 36 liberal arts credits, only 6 of which may be contributed from the student's major field.

Remember that PHIL 200 or 393 (Bioethics) must be taken before the capping class, BIO 477 Biology Capping