

B.S. IN BIOLOGY GRADUATION CHECKLIST

Student Name: _____

Adviser Name: _____

REQUIRED COURSEWORK FOR STUDENTS STARTING IN FALL 2023 OR LATER

General Biology BIO 111 _____ BIO 112 _____

Upper Level Biology Courses

BIO 206 Ecology (Required) _____

BIO 205 Cell Biology (Required) _____

Category II (Required; not Cell Bio) _____

Category III (Required) _____

Categories I, II, or III (2 courses) 1. _____ 2. _____

Categories I, II, III, IV, or V _____

Ancillary Courses

Chemistry

CHE 120 _____

CHE 140 _____

CHE 220 _____

CHE 240 _____

Differential Calculus or Stretch Calculus

MAT 111 or

MAT 106 and 107 _____

Junior Seminar BIO 392 _____

Physics (not required, but many medical and graduate schools require)

PHY 101 or 111 _____

PHY 102 or 112 _____

AREA OF EMPHASIS

___ Cell/Molecular Biology & Infectious Disease

___ Ecology & Evolution

___ Physiology & Organismal Biology

- *Must complete 3 upper level biology courses from one chosen area of emphasis (see list on next page)*

1. _____ 2. _____ 3. _____

- *SCE topic must be within one chosen area of emphasis.*

SCE Advisor _____

SCE Emphasis _____

INSTITUTIONAL REQUIREMENTS

_____ 128 total credits

_____ Major GPA \geq 2.0

_____ 6 or fewer D grades

_____ 2 or fewer D grades in major

_____ W1/FYS

_____ W2

_____ W3

_____ Foreign Language

_____ Humanities/Fine Arts

_____ Social Sciences

BIOLOGY COURSE LIST (*Updated Spring 2021*)

Category I: Ecology

- BIO 206 Ecology^{EE}
- BIO 309 Marine and Estuarine Biology^{EE}
- BIO 313 Wetlands Ecology^{EE}
- BIO 328 Behavioral Ecology^{EE}
- BIO 351 Evolution^{EE}
- *ENV 302 Conservation & Wildlife Techniques^{EE}
- *ENV 394 Marine Conservation^{EE}
- *ENV 394 Restoration Ecology^{EE}

Category II: Cellular Biology

- BIO 202 Stem Cell Biology^{BMI}
- BIO 203 Microbiology^{BMI, PO}
- BIO 205 Cell Biology^{BMI}
- BIO 209 Genetics^{BMI}
- BIO 302 Developmental Biology^{BMI}
- BIO 310 Microbial Ecology^{BMI, EE}
- BIO 314 Biotech and Molecular Biology^{BMI}
- BIO 369 Cell Signaling^{BMI}
- BIO 404 Immunology^{BMI, PO}
- BIO 409 Biochemistry^{BMI}
- Neurodevelopment^{BMI}
- Endocrinology^{PO}
- Cellular Aging^{BMI}

Category III: Organismal Biology

- BIO 208 General Zoology^{PO}
- BIO 211 Plant Biology^{EE, PO}
- BIO 228 Ornithology^{PO}
- BIO 301 Integrative Human Anatomy^{PO}
- BIO 311 Neurobiology^{PO}
- BIO 315 Ecophysiology^{EE, PO}
- BIO 317 Pathophysiology^{PO}
- BIO 336 Ichthyology^{PO}
- BIO 350 Toxicology^{BMI}
- BIO 424 Integrative Human Physiology^{PO}

Category IV: Seminars

- BIO 399 Biology course without lab

Category V: Research/Independent Study/Internship

- BIO 210 Ecology of Coastal Maine^{EE}
- BIO 212 Bermuda Environment^{EE}
- BIO 294 Tropical Ecology^{EE}
- BIO 395 Summer Research
- BIO 495/6 Independent Research
- BIO 490 Biology Internships
- BIO 497/8 Independent Study

BMI: Biochemistry, Molecular Biology and Infectious Disease

EE: Ecology and Evolution

PO: Physiology and Organismal Biology

** Only one ENV course may count toward Biology major*

Class standing

Freshman <28 credits

Sophomore 28-59 credits

Junior 60-91 credits

Senior 92+ credits