

# B.S. IN BIOLOGY GRADUATION CHECKLIST

Student Name: \_\_\_\_\_

Adviser Name: \_\_\_\_\_

## REQUIRED COURSEWORK FOR STUDENTS STARTING BEFORE FALL 2023

**General Biology**      BIO 111 \_\_\_\_\_      BIO 112 \_\_\_\_\_

### Upper Level Biology

Ecology (Required) \_\_\_\_\_

Genetics (Required) \_\_\_\_\_

Category II (Required; not Genetics) \_\_\_\_\_

Category III (Required) \_\_\_\_\_

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

Categories I, II, III, IV, or V \_\_\_\_\_

### Ancillary Courses

Chemistry	Differential Calculus or Stretch Calculus
CHE 120 _____	MAT 111 or
CHE 140 _____	MAT 106 and 107 _____
CHE 220 _____	
CHE 240 _____	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<sup>EE</sup>
- BIO 309 Marine and Estuarine Biology<sup>EE</sup>
- BIO 313 Wetlands Ecology<sup>EE</sup>
- BIO 328 Behavioral Ecology<sup>EE</sup>
- BIO 351 Evolution<sup>EE</sup>
- \*ENV 302 Conservation & Wildlife Techniques<sup>EE</sup>
- \*ENV 394 Marine Conservation<sup>EE</sup>
- \*ENV 394 Restoration Ecology<sup>EE</sup>

## Category II: Cellular Biology

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

## Category III: Organismal Biology

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

## Category IV: Seminars

- BIO 399 Biology course without lab

## Category V: Research/Independent Study/Internship

- BIO 210 Ecology of Coastal Maine<sup>EE</sup>
- BIO 212 Bermuda Environment<sup>EE</sup>
- BIO 294 Tropical Ecology<sup>EE</sup>
- 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*