

B.S. in Biology with Physiology and Organismal Biology Emphasis Graduation Checklist

Student's Name _____ Adviser's Name _____

- **General Biology**

BIO111 _____ BIO112 _____

- **Upper-Level Biology Courses**

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 _____

- **Above courses designated PO (3 courses)**

1. _____ 2. _____

3. _____

- **Ancillary Courses and Requirements**

General Chemistry

CHE111 _____

CHE112 _____

Differential Calculus

MAT201 _____

Organic Chemistry

CHE201 _____

CHE202 _____

Junior/Senior Seminar

BIO392 _____

BIO491 _____

Physics*

PHY101/111 _____

PHY102/112 _____

2 or fewer "D" grades in major (presented for graduation) _____

W4 Senior Capstone

Thesis Adviser: _____

Project (emphasis in PO): _____

Major GPA \geq 2.0 _____

- **Institutional and Distribution Requirements**

128 total credits _____

6 or fewer "D" grades _____

GPA \geq 2.0 _____

W1/GRW _____

W2/ENG101 _____

W3 _____

Foreign language _____

Humanities and fine arts _____

Social sciences _____

****Not required, but many medical and graduate schools require physics. PHY 101/102 OR PHY 111/112.***

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The following courses are currently offered within the Department of Biology. Use this list to fill in the list of "Upper-level biology courses" shown on the previous page. (There may be other upper-level biology courses offered as Special Topics that are not listed here. Speak with your advisor to determine into which of the 5 categories those courses fall.)

Category I: Ecology

BIO 206 Ecology^{EE}
BIO 309 Marine and Estuarine Biology^{EE}
BIO 313 Wetlands Conservation^{EE}
BIO 328 Behavioral Ecology^{EE}
BIO 351 Evolution^{EE}

Category II: Cellular Biology

BIO 203 Microbiology^{CMI, PO}
BIO 205 Cell Biology^{CMI}
BIO 207 Biotech and Molecular Biology^{CMI}
BIO 302 Developmental Biology^{CMI}
BIO 305 Genetics^{CMI}
BIO 310 Microbial Ecology^{CMI, EE}
BIO 350 Toxicology^{CMI}
BIO 404 Immunology^{CMI, PO}
BIO 409 Biochemistry^{CMI}
Cell Signaling^{CMI}
Endocrinology^{PO}

Category III: Organismal Biology

BIO 211 Plant Biology^{EE, PO}
BIO 208 General Zoology^{PO}
BIO 228 Ornithology^{PO}
BIO 301 Comparative Vertebrate Anatomy^{PO}
BIO 303 Parasitology^{PO}
BIO 304 Invertebrate Zoology
BIO 311 Neurobiology^{PO}
BIO 315 Ecophysiology^{EE, PO}
BIO 336 Ichthyology^{PO}
BIO 424 Comparative Animal Physiology^{PO}
Pathophysiology^{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 Nicaragua^{EE}
BIO 395 Summer Research^{CMI, EE, PO}
BIO 495/6 Independent Research^{CMI, EE, PO}
BIO 497/8 Independent Study
BIO 490 Biology Internships

CMI: Cell/Molecular Biology and Infectious Disease.

EE: Ecology and Evolution

PO: Physiology and Organismal Biology