

B.S. IN BIOLOGY GRADUATION CHECKLIST

Student Name: _____

Adviser Name: _____

REQUIRED COURSEWORK

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

CHE 120 _____

CHE 140 _____

CHE 220 _____

CHE 240 _____

Differential Calculus

MAT 201 _____

Junior & Senior Seminar

BIO 392 _____

BIO 491 _____

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 Fall 2019*)

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}

Category II: Cellular Biology

- 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}
- Stem Cell Biology ^{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 303 Parasitology ^{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