

B.S. IN BIOLOGY GRADUATION CHECKLIST

Student Name: _____

Adviser Name: _____

REQUIRED COURSEWORK FOR STUDENTS STARTING IN FALL 2026 OR LATER

General Biology BIO 111 _____ BIO 112 _____

Upper Level Biology Courses

BIO 206 Ecology (Required) _____

BIO 205 Cell and Molecular Biology (Required) _____

Category III (Required) _____

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

Category I, II, III, or IV _____

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

Ancillary Courses

Chemistry

CHE 120 _____

CHE 140 _____

CHE 220 _____

Differential Calculus or Statistics

MAT 111 or

MAT 106 and 107 _____

MAT 109, PSY 109, or

BUS 109 _____

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 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 2026*)

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}
BIO 335 Cellular Aging ^{BMI}
Neurodevelopment ^{BMI}
Endocrinology ^{PO}

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/Travel Courses

BIO 210 Ecology of Coastal Maine ^{EE}
BIO 212 Bermuda Environment ^{EE}
BIO 213 Tropical Ecology ^{EE}
Biology course without lab

Category V: Research/Independent Study/Internship

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