

REQUIREMENTS

- ✓ 128 credits including 12 biology courses; 6-7 related chemistry, math/computer science, and physics courses; second language proficiency; and 26 Hub units.
- ✓ C or higher is required for credit in all biology, math/computer science, and physics courses; C- or higher is necessary for credit in all required chemistry courses.
- ✓ Excluding Introductory Biology courses: a) at least three biology courses must have a laboratory component; b) at least three biology courses must be at the 300+ level; and c) at least five biology courses must be taken in the BU Biology Department.

INTRODUCTORY BIOLOGY

Both courses are required.

BI 107
BI 108 or BI 116

FOUNDATION COURSES

All three courses are required.

BI 206 or BI 216
BI 303 ♦
BI 448

♦ Course will count toward the requirement for 3 lab courses.

BREADTH REQUIREMENT

Choose one course from the following area of biology.

Physiology & Neurobiology (PN)

BI 310 ♦
BI 315 ♦
BI 325

ECB ELECTIVES

All six courses are required. See **Courses by Semester** and **Optional Programs** on SIDE II.

1	4
2	5
3	6

CHEMISTRY COURSES

See **Chemistry Requirements** on SIDE II.

1	2	3
(If on standard track)		

MATH & COMPUTER SCIENCE COURSES

See **Math & Computer Science Requirements** on SIDE II.

1	2
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PHYSICS COURSES

See **Physics Requirements** on SIDE II.

1	2
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GENERAL EDUCATION REQUIREMENTS

For more details visit the **CAS Degree Overview** page.

CAS 2nd Language Requirement: _____

Proficiency through the fourth semester: I II III IV

BU Hub Units:

PLM	SI1	QR1	IIC	FYW	CRT
AEX	SO1	QR2	GCI	WRI	RIL
HCO	SI2/ SO2		ETR	WIN	TWC
				OSC	CRI
				DME	

FIRST YEAR	FALL	SPRING
	1	1
	2	2
	3	3
	4	4
	SUM1	SUM2
SOPHOMORE YEAR	FALL	SPRING
	1	1
	2	2
	3	3
	4	4
	SUM1	SUM2
JUNIOR YEAR	FALL	SPRING
	1	1
	2	2
	3	3
	4	4
	SUM1	SUM2
SENIOR YEAR	FALL	SPRING
	1	1
	2	2
	3	3
	4	4
	SUM1	SUM2

Biology courses above with a lab component (excluding BI 107/108/116):

1	2	3
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Biology courses above that are 300+:

1	2	3
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Advisor Name: _____

Advisor Signature: _____

Notes/Comments:

BIOLOGY COURSES BY SEMESTER

Note: Semester offerings may change. See the [Course Directory](#) and [StudentLink](#) for updated info. Courses cross-listed with those below are accepted.

Fall Semester Courses

Introductory Courses

BI 107 Biology 1

Breadth Courses

BI 310 Human Structure & Function ♦

BI 315 Systems Physiology ♦

BI 325 Princ. of Neurosci.

ECB Electives

BI 225 Behavioral Biology

BI 305 Plant Biology ♦

BI 306 Bio. of Global Change ♦

BI 309 Evolution

BI 333 Human Population Genetics ❖

BI 407 Animal Behavior ♦

BI 443 Terrestrial Biogeochemistry

BI 510 Inst. Racism in Health&Science

BI 513 Genetics Lab ♦

BI 523 Marine Urban Ecology ♦(MS)

BI 531 Ichthyology ♦(MS)

BI 539 Coral Reef Dynamics ♦(MS)

BI 541 Coral Reef Restoration ♦(MS)

BI 546 Marine Megafaunal Ecology ♦(MS)

BI 548 Marine Microbial Ecology ♦(MS)

BI 558 Coastal Biogeochemistry ♦(MS)

BI 569 Trop. Marine Invertebrates ♦(MS)

BI 578 Marine Geo. Info. Science ♦ (MS)

BI 588 Proj. Design&Stats. in Bio. Anthro. ❖

BI 591 Bio-Optical Oceanography ❖❖(MS)

BI 593 Marine Phys. and Clim. Change ♦ (MS)

Spring Semester Courses

Introductory Courses

BI 108 Biology 2

BI 116 Biology 2 with ISE Lab

Foundation Courses

BI 206 Genetics

BI 216 Intensive Genetics

BI 303 Ecology ♦

BI 448 Biodiv. and Conservation

Breadth Courses

BI 315 Systems Physiology ♦

BI 325 Principles of Neuroscience

ECB Electives

BI 225 Behavioral Biology

BI 260 Marine Biology

BI 302 Vertebrate Zoology ♦

BI 306 Bio. of Global Change ♦

BI 307 Biogeography^

BI 411 Microbiome

BI 413 Microbial Ecology

BI 414 Ornithology ❖

BI 423 Marine Biogeochemistry

BI 475 Urban Ecology^

BI 500 Shark Biology & Conservation

BI 504 Advanced Evol. Analysis

BI 506 Phenotypic Plasticity ❖

BI 509 Metapopulation Ecology ❖

BI 510 Inst. Racism in Health&Science

BI 515 Population Genetics ❖

BI 519 Theor. Evol. Ecology ♦❖

BI 530 Forest Ecology

BI 542 Neuroethology

BI 550 Marine Genomics ♦

BI 586 Ecological Genomics ♦❖

♦ Course will count toward the requirement for 3 lab courses.

❖ Course typically offered every other year.

^ EE 101 is a prerequisite for BI 307 and BI 475.

(IRR) Course offered irregularly.

(MS) Course offered in Marine Semester (application required).

NON-DEPARTMENTAL COURSES

A maximum of two of the following courses can be used as ECB electives:

AN 331 Human Origins

AN 335 The Ape Within

AN 336 Primate Evolutionary Ecology

AN 339 Primate Biomechanics

AN 552 Primate Evolution & Anatomy

EE 302 Remote Sensing of Environ.

EE 310 Climate and the Environment

EE 365 Intro. to Geo. Info. Systems (GIS)

EE 504 Physical Climatology

EE 525 Plant Physiological Ecology

MR 529 Tropical Marine Fisheries (MS)

OPTIONAL PROGRAMS (Application Required)

Undergraduate Research

BI 140/141 Undergraduate Research in Biology 1 (2 cr)

BI 240/241 Undergraduate Research in Biology 2 (2 cr)

BI 340/341 Undergraduate Research in Biology 3 (2 cr)

BI 350-352 Undergraduate Research in Biology 3 (4 cr ♦)

BI 450-453 Undergraduate Research in Biology 4 (4 cr ♦)

BI 401/402 Honors Research in Biology (4 cr ♦)

BI 497/498 Honors Research in Biology Seminar (2 cr)

- Up to two of the above 4-credit research courses can count as electives; one of those can apply towards the three-lab requirement.
- For more info. visit www.bu.edu/biology/undergrad/research/

Science Abroad - Madrid, Spain

- Offered in the fall semester; courses taught in English.
- Targeted to sophomores in science majors/pre-med students.
- For more information, visit: www.bu.edu/abroad

Marine Semester (MS) BI Courses ♦

- For more information, visit: www.bu.edu/bump/marine-semester/

CHEMISTRY REQUIREMENTS

Choose a track.

Standard Track (Recommended)

General Chemistry: Choose one sequence.

Sequence I Sequence II Sequence III

CH 101

CH 109

CH 111

CH 203

CH 102/

CH 110

CH 112

CH 211

CH 116

Note: Pre-health students may need additional courses including CH 204 (or 212 or 214) and biochemistry BI/CH 421 or CH 373.

Alternative Track (Not acceptable for most pre-health careers)

General Chemistry: Choose one sequence.

Sequence I Sequence II

CH 171

General Chemistry
Sequence from Standard
Track (2 courses)

Organic Chemistry:

Choose one course.

CH 172*

CH 174

*Includes biochemistry content.

MATH & COMPUTER SCIENCE REQUIREMENTS

Choose two courses from the lists below. At least one course must be calculus or statistics.

Calculus

Statistics

Computer Science

MA 121 or 123

MA 115 or 213

CS 105

MA 122 or 124

MA 116 or 214

CS 108

MA 127 or 129

CDS DS 100

CS 111

MA 196

CDS DS 110

PHYSICS REQUIREMENTS

Choose one sequence.

PY 105 and PY 106

PY 211 and PY 212

PY 211 and PY 106

PY 241 and PY 242