

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

BU ID: \_\_\_\_\_

## Specialization in Behavioral Biology

Boston University College of Arts & Sciences  
Department of Biology

### REQUIREMENTS

- ✓ 12 biology, anthropology, and psychology courses; 6-7 related science and math courses; and 10 additional CAS courses toward the 128 credits needed to graduate.
- ✓ 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.
- ✓ At least two electives must have an AN or PS (or cross-listed) course number.

### INTRODUCTORY BIOLOGY

BI 107                      BI 108 or BI 116

### FOUNDATION COURSE

BI 225

### BREADTH REQUIREMENTS

Choose one course from each area of biology. Courses fulfilling breadth requirements may not also fulfill elective requirements.

#### Cell & Molecular (CM)

BI 203 or BI 213 (or BI 218 ♦)  
BI 206\* or BI 216\*

#### Physiology & Neurobiology (PN)

BI 310 ♦  
BI 315 ♦  
BI 325 (or NE 203 ♦)

#### Ecology, Behavior & Evolution (EBE)

BI 407 ♦

\* Recommended course  
♦ Course will count toward the three-lab requirement.

### PRIMARY ELECTIVES

See **Biology Courses by Semester** and **Anthropology & Psychology Electives** on SIDE II.

1 \_\_\_\_\_ 2 \_\_\_\_\_

### ADDITIONAL ELECTIVES

See **Biology Courses by Semester**, **Anthropology & Psychology Electives**, and **Optional Programs** on SIDE II.

1 \_\_\_\_\_ 3 \_\_\_\_\_  
2 \_\_\_\_\_ 4 \_\_\_\_\_

### 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 \_\_\_\_\_

### PHYSICS COURSES

See **Physics Requirements** on SIDE II.

1 \_\_\_\_\_ 2 \_\_\_\_\_

### CAS REQUIREMENTS

For more details visit the **CAS Bulletin** page.

#### 2nd Language: \_\_\_\_\_

Proficiency through the 4th semester:    I    II    III    IV

Writing:    WR 100/120    WR 150

Humanities:    1 \_\_\_\_\_ 2 \_\_\_\_\_

Social Sciences:    1 \_\_\_\_\_ 2 \_\_\_\_\_

3/9/2022

	FALL	SPRING
FIRST YEAR	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 \_\_\_\_\_

Biology courses above that are 300+ level:

1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

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

#### Foundation Courses

BI 225 Behavioral Biology

#### Breadth Courses

BI 203 Cell Biology  
 BI 213 Intensive Cell Biology  
 BI 218 Cell Biology with ISE Lab ♦  
 BI 310 Human Structure & Function ♦  
 BI 315 Systems Physiology ♦  
 BI 325/(NE 203 ♦) Princ. of Neurosci.  
 BI 407 Animal Behavior ♦

#### BI Primary Electives

BI 520 Sensory Neurobiology (IRR)  
 BI 545 Neurobio. of Motivated Behav.

#### BI Additional Electives

BI 203 Cell Biology  
 BI 213 Intensive Cell Biology  
 BI 218 Cell Biology with ISE Lab ♦  
 BI 306 Bio. of Global Change ♦  
 BI 309 Evolution  
 BI 325/(NE 203 ♦) Princ. of Neurosci.  
 BI 333 Human Population Genetics ❖  
 BI 510 Inst. Racism in Health&Science  
 BI 520 Sensory Neurobiology (IRR)  
 BI 535 Trans. Research in Alzheimer's  
 BI 545 Neurobio. of Motivated Behav.  
 BI 588 Proj. Design&Stat. in Bio. Anthro. ❖

♦ Course counts toward the three-lab requirement  
 ❖ Course typically offered every other year  
 (IRR) Course offered irregularly

### Spring Semester Courses

#### Introductory Courses

BI 108 Biology 2  
 BI 116 Biology 2 with ISE Lab

#### Foundation Courses

BI 225 Behavioral Biology

#### Breadth Courses

BI 203 Cell Biology  
 BI 206 Genetics  
 BI 216 Intensive Genetics  
 BI 315 Systems Physiology ♦  
 BI 325 Principles of Neuroscience

#### BI Primary Electives

BI 230 Behavioral Endocrinology  
 BI 449 Neuroscience Design Lab ♦  
 BI 508 Behavioral Ecology (IRR)  
 BI 520 Sensory Neurobiology (IRR)  
 BI 542 Neuroethology

#### BI Additional Electives

BI 203 Cell Biology  
 BI 206 Genetics  
 BI 216 Intensive Genetics  
 BI 230 Behavioral Endocrinology  
 BI 260 Marine Biology  
 BI 302 Vertebrate Zoology ♦  
 BI 303 Ecology ♦  
 BI 306 Bio. of Global Change ♦  
 BI 325 Principles of Neuroscience  
 BI 414 Ornithology ❖  
 BI 448 Biodiversity and Conservation  
 BI 449 Neuroscience Design Lab ♦  
 BI 500 Shark Biology & Conservation  
 BI 504 Advanced Evol. Analysis  
 BI 506 Phenotypic Plasticity ❖  
 BI 510 Inst. Racism in Health&Science  
 BI 515 Population Genetics ❖  
 BI 519 Theor. Evol. Ecology ♦❖  
 BI 520 Sensory Neurobiology (IRR)  
 BI 542 Neuroethology  
 BI 599 Physiology of the Synapse (IRR)

## ANTHROPOLOGY & PSYCHOLOGY ELECTIVES

AN 234 Evolutionary Psychology (AE, PE)  
 AN 263 Behavioral Biology of Women (AE)  
 AN 330 Evolution of Human Life History (AE)  
 AN 331 Human Origins (AE)  
 AN 335 The Ape Within (AE, PE)  
 AN 336 Primate Evolutionary Ecology (AE)  
 AN 338 Lucy: The Oldest Woman (AE)  
 AN 339 Primate Biomechanics (AE)  
 AN 534 Adv. Topics in Human Behav. Evolution (AE)  
 AN 551 Anthropology and Human Heredity (AE)

AN 552 Primate Evolution and Anatomy (AE)  
 AN 553 Human Uniqueness (AE)  
 AN 555 Evolutionary Medicine (AE)  
 AN 556 Evolution of the Human Diet (AE)  
 AN 558 Human Sex Difference (AE)  
 AN 559 Evolutionary Endocrinology (AE, PE)  
 AN 597 Issues in Biological Anthro. (AE)  
 AN 598 Issues in Biological Anthro. (AE)  
 PS 231 Physiological Psychology (AE, PE)  
 PS 234 Psychology of Learning (AE)

PS 241 Developmental Psychology (AE)  
 PS/NE 333 Drugs and Behavior (AE)  
 PS 336 Intro. to Cognitive Psych. (AE)  
 PS/NE 337 Memory Systems of the Brain (AE, PE)  
 PS/NE 338 Neuropsychology (AE)  
 PS/NE 521 Animal Models in Behav. Neuro. (AE)  
 PS/NE 528 Human Brain Mapping (AE)  
 PS/NE 544 Dev. Neuropsychology (AE, PE)

(AE) Additional Elective (PE) Primary Elective

## CHEMISTRY REQUIREMENTS

Choose a track.

### Standard Track

General Chemistry: Choose one sequence.			Organic Chemistry:
Sequence I	Sequence II	Sequence III	Choose one course.
CH 101	CH 109	CH 111	CH 203/CH 218
CH 102/ CH 116	CH 110	CH 112	CH 211

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.		Organic Chemistry:
Sequence I	Sequence II	Choose one course.
CH 171	General Chemistry Sequence from Standard Track (2 courses)	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

## 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](http://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](http://www.bu.edu/abroad)

### Marine Semester (MS) BI Courses ♦

- For more information, visit: [www.bu.edu/bump/marine-semester/](http://www.bu.edu/bump/marine-semester/)

## ADDITIONAL RESOURCES

[www.bu.edu/biology](http://www.bu.edu/biology)

617.353.2432

Contact: Ben Bradbury-Koster at [bradkost@bu.edu](mailto:bradkost@bu.edu)

Please note: The **Bulletin** is the authority on all requirements and policies. For official tracking of your academic progress, visit <https://degree-advice.bu.edu>