Specialization in Neurobiology

Biology Requirements

- A grade of “C” or higher is required for all biology courses contributing to the major.
- At least three courses must be at the 300-500 level.
- A course may fulfill more than one requirement. Example: BI 303 simultaneously fulfills a lab/field requirement, a 300-500 level course & the EBE requirement. However, the course may only count as four credits.
- A course cannot fulfill a breadth requirement and a Neurobiology elective simultaneously.

Introductory Biology
Both courses are required

☐ CAS BI 107 Biology I
☐ CAS BI 108 Biology II

Required Core Courses
All three courses are required

☐ CAS BI 203 Cell Biology
☐ CAS BI 213 Intensive Cell Biology
☐ CAS BI 315 Systems Physiology
☐ CAS BI 325 Principles Of Neuroscience
☐ CAS NE 203 Principles Of Neuroscience With Lab

Breadth Requirements
Choose one class from each disciplinary area

- Cell & Molecular Biology (CM)
  Satisfied by required core courses
- Physiology or Neurobiology (PN)
  Satisfied by required core courses
- Ecology/Behavior/Evolution Biology (EBE)
  Satisfied by required core courses
  ☐ CAS BI 225 Behavioral Biology
  ☐ CAS BI 303 Evolutionary Ecology
  ☐ CAS BI 306 Biology Of Global Change
  ☐ CAS BI 309 Evolution
  ☐ CAS BI 407 Animal Behavior
- Lab courses ★ Recommended

Three Lab Courses

- In addition to BI 107/108
- Courses fulfilling the lab requirement must be BI or NE 203

Independent Research (optional)

- A maximum of 8 credits (2 courses) from this list may be counted as advanced electives.
- A maximum of 4 credits (1 course) can apply towards the lab requirement.

For more information about the Neurobiology specialization, please see the undergraduate bulletin.
http://www.bu.edu/academics/cas/programs/biology/ba-neurobiology/
### Related Requirements

#### Math & Computer Science Requirements
- 2 semesters: A grade of “C” or higher is required for all math and computer science courses.
- Choose an option.

**Option A**
- **Choose ANY** two math courses (calculus and/or statistics)
- Calculus: MA 121/122, MA 123/124, MA 123/122
- Statistics: MA 115/116, MA 213/214, MA 213/115
- Other: MA 196, MA 127, or MA 129

**Option B**
- One semester of calculus or statistics
- and one semester of computer science
- Computer Science: CS 105, CS 108, CS 111

**Fill in your choices**

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#### Chemistry Requirements
- 3 semesters: A grade of “C-” or higher is required for all chemistry courses.

**Option A**
- General Biology: 3 Semesters
  - Choose one 100-level General Chemistry sequence
  - Choose one 200-level Organic Chemistry course

**General Chemistry**
- Sequence I
  - CH 101
  - CH 109
  - CH 111

**Sequence II**
- CH 102
- CH 110
- CH 112

**Organic Chemistry**
- Sequence I
  - CH 203
  - CH 211

**Option B**
- Pre-Med: 4 Semesters
  - Choose one General Chemistry sequence
  - Choose one Organic Chemistry sequence
  - Choose one Biochemistry option

**General Chemistry**
- Sequence I
  - CH 101
  - CH 109
  - CH 111

**Sequence II**
- CH 102
- CH 110
- CH 112

**Organic Chemistry**
- Sequence I
  - CH 203
  - CH 211

**Sequence II**
- CH 204
- CH 212
  - (or 214)
  - (or 214)

**Biochemistry**
- Sequence I
  - BI/CH 421
  - BI/CH 421
- Sequence II
  - CH 273
  - BI/CH 222

#### Physics Requirements
- 2 semesters: A grade of “C” or higher is required for all physics courses.
- Choose a sequence

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<td>PY 105</td>
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<td>PY 106</td>
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*MA 225 is recommended for PY 212

#### CAS Requirements

**Four semesters of the same language:**
- **Language:**
  - I
  - II
  - III
  - IV

**Writing:**
- WR 100
- WR 150

#### Humanities:

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#### Social Science:

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#### Proposed Course of Study

**Freshmen Year**

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**Junior Year**

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**Senior Year**

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