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

<table>
<thead>
<tr>
<th>Option A</th>
<th>Option B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose ANY two math courses (calculus and/or statistics)</td>
<td>One semester of calculus or statistics and one semester of computer science</td>
</tr>
<tr>
<td>Calculus: MA 121/122, MA 123/124, MA 123/122</td>
<td>Computer Science: CS 105, CS 108, CS 111</td>
</tr>
<tr>
<td>Statistics: MA 115/116, MA 213/214, MA 213/115</td>
<td>Fill in your choices</td>
</tr>
<tr>
<td>Other: MA 196, MA 127*, or MA 129*</td>
<td>I</td>
</tr>
<tr>
<td>★MA 127 or MA 129 can be used to satisfy both math requirements</td>
<td>II</td>
</tr>
</tbody>
</table>

Chemistry Requirements
- 3 semesters: A grade of "C-" or higher is required for all chemistry courses
- Choose an option

<table>
<thead>
<tr>
<th>Option A</th>
<th>Option B</th>
<th>Option C</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Biology</td>
<td>Pre-Med</td>
<td>Life Sciences</td>
</tr>
<tr>
<td>3 Semesters</td>
<td>4 Semesters</td>
<td>3 Semesters</td>
</tr>
<tr>
<td>Choose one 100-level General Chemistry sequence</td>
<td>Choose one 100-level General Chemistry sequence</td>
<td>Intended for SAR students</td>
</tr>
<tr>
<td>Choose one 200-level Organic Chemistry course</td>
<td>Choose one 200-level Organic Chemistry course</td>
<td>Not acceptable for Pre-Med students</td>
</tr>
</tbody>
</table>

| General Chemistry | General Chemistry | General Chemistry |
| Sequence I | Sequence II | Sequence III |
| CH 101 | CH 109 | CH 111 |
| CH 102 | CH 110 | CH 112 |
| CH 203 | CH 211 | |
| CH 204 | CH 212 | |
| OR (or 214) | OR (or 214) | |

| Organic Chemistry | Organic Chemistry | Organic Chemistry |
| Sequence I | Sequence II | |
| CH 101 | CH 109 | |
| CH 102 | CH 110 | |
| CH 203 | CH 211 | |
| CH 204 | CH 212 | |
| OR (or 214) | OR (or 214) | |

<table>
<thead>
<tr>
<th>Physics Requirements</th>
<th>CAS Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 semesters: A grade of &quot;C&quot; or higher is required for all physics courses</td>
<td>Four semesters of the same language:</td>
</tr>
<tr>
<td>Choose a sequence</td>
<td>Language:</td>
</tr>
<tr>
<td>Sequence I</td>
<td>Sequence II</td>
</tr>
<tr>
<td>PY 105</td>
<td>PY 211</td>
</tr>
<tr>
<td>OR PY 106</td>
<td>PY 212* (or PY 106)</td>
</tr>
</tbody>
</table>

| Humanities: | Social Science: |
| I | I |
| II | II |
| III | |
| IV | |

| WR 100 | WR 150 |

Proposed Course of Study

Freshmen Year
- Fall
- II
- III
- IV
- Summer I
- Summer II

Sophomore Year
- Fall
- I
- II
- III
- IV
- Summer I
- Summer II

Junior Year
- Fall
- I
- II
- III
- IV
- Summer I
- Summer II

Senior Year
- Fall
- I
- II
- III
- IV
- Summer I
- Summer II

Do you have questions?
Contact your Undergraduate Program Coordinator
Michelle Litke at mlitke@bu.edu
Specialization in Ecology & Conservation Biology

Biology Requirements

- A grade of “C” or higher is required for all biology and non-biology elective courses contributing to the major.
- 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.

Introductory Biology
Both courses are required

- CAS BI 107 Biology I
- CAS BI 108 Biology II
- or CAS BI 118 Biology II Honors

Required Core Courses
All three courses are required

- CAS BI 206 Genetics
- or CAS BI 216 Intensive Genetics
- CAS BI 303 Evolutionary Ecology
- CAS BI 448 Biodiversity & Conservation Biology

Breadth Requirements
Choose at least one course from each disciplinary area

- Cell & Molecular Biology (CM) Satisfied by required core courses
- Physiology or Neuroscience (PN)
  - CAS BI 315 Systems Physiology
  - CAS BI 325 Principles Of Neuroscience
    - CAS NE 203 Principles Of Neuroscience With Lab
- Ecology/Behavior/Evolution Biology (EBE)
  Satisfied by required core courses
  - Lab courses

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

ECB Electives
Choose six

- CAS BI 225 Introduction to Behavioral Biology
- CAS BI 260 Marine Biology
- CAS BI 302 Vertebrate Zoology
- CAS BI 306 Biology Of Global Change
- CAS BI 307 Biogeography
- CAS BI 309 Evolution
- CAS BI 407 Animal Behavior
- CAS BI 414 Ornithology
- CAS BI 415 Biology Of Animals
- CAS BI 423 Marine Biochemistry
- CAS BI 443 Terrestrial Biochemistry
- CAS BI 502 Topics in The Theory of Biology Networks
- CAS BI 503 Symbiosis
- CAS BI 504 Advanced Evolution
- CAS BI 506 Phenotypic Plasticity
- CAS BI 508 Behavioral Ecology
- CAS BI 512 Mammalian Ecology
- CAS BI 513 Genetics Lab
- CAS BI 515 Population Genetics
- CAS BI 519 Theoretical Evolutionary Ecology
- CAS BI 530 Forest Ecology
- CAS BI 543 Global Ecology

- Lab courses
  - Fill in your choices
  - I
  - II
  - III
  - IV
  - V
  - VI

Optional Programs
Advance application is required

Independent Research
- 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.

- BI 391/392
- BI 401/402
- BI 491/492

Tropical Ecology Program (TEP)
All TEP courses count towards Biology electives
- TEP fulfills the 3-lab/field course requirement

- BI 438 Tropical Montane Ecology
- BI 440 Tropical Coastal Ecology
- BI 439 Tropical Rainforest Ecology
- BI 441 Studies In Tropical Ecology

Marine Semester (MS)
Choose one course each block
All MS courses may count towards ECB electives
- MS courses count as lab/field courses

- I
- II
- III
- IV

For more information about the ECB specialization, please see the undergraduate bulletin.
http://www.bu.edu/academics/cas/programs/biology/ba-ecology-conservation/