For students matriculating in Fall 2014

Requirements for a major in Biology:
A total of 37 biology credit hours are required. All first year students must complete BI 111 (Contemporary Issues in Biology) and the three Fundamentals courses which consist of BI 210 (Genetics – Fundamentals), BI 220 (Cellular and Molecular Biology – Fundamentals), and BI 230 (Ecology and Evolutionary Biology – Fundamentals). BI 230 is a prerequisite for all BI courses numbered 300 and higher. All students must also complete BI 299 – Biology Seminar (pass/fail) in the spring semester of their second year in the major. To acquire the remaining credit hours for the major, students must take biology electives at the 300 level or above; at least four of these electives must be lab courses. One of the electives taken must be an organism-based course chosen from the following: BI 301, BI 302, BI 311 or BI 438. All senior biology majors must complete BI 480 (Biology Capstone). In addition, all biology majors must take general chemistry (CH 105/106 or CH 107). Students will be allowed to use a maximum of three hours of independent study credit, internship credit, research, or honors thesis credit toward the 37-hour minimum required for the biology major.

Note: BI 325 cannot be counted toward the 37-hour minimum required for the biology major.

Required courses (number of credit hours in brackets):

BI 111 Contemporary Issues in Biology [1]; first semester majors and exploratory natural science students only - students joining the major in their sophomore year or later are exempt from this course
BI 210 Genetics – Fundamentals [4]
BI 220 Cellular and Molecular Biology - Fundamentals [4]
BI 299 Biology Seminar [1 P/F]
BI 480 Biology Capstone [3]

Electives (number of credit hours in brackets; prerequisites beyond BI 230 or other conditions in parentheses):

BI 301* Principles of Zoology [4]
BI 302* Principles of Botany [4]
BI 306 Mammalogy [4]
BI 307 Vertebrate Biology [4]
BI 308 Tropical Field Biology [3]
BI 309 Local Flora [3]
BI 311* Biology of Algae and Fungi [4]
BI 320 Animal Behavior [4]
BI 323 Principles of Immunology [4] (BI 105 or BI 230)
BI 339 Philosophy of Biology [4]
BI 401-403 Independent Study [1, 2, or 3]
BI 405-409 Topics in Biology [1, 2, 3, 4, or 5]
BI 411 Principles of Physiology [4]
BI 413 Vertebrate Histology and Microtechnique [4]
BI 417 Tropical Terrestrial Ecology [4]
BI 418 Advanced Ecology [4]
BI 419 Conservation Biology [3]
BI 423 Advanced Evolutionary Biology [3]
BI 430 Animal Development [4]
BI 431 Plant Development [4]
BI 432 Plant Physiology [4]
BI 433 Advanced Cell Biology [4]
BI 434 Transmission Genetics [4]
BI 435 Molecular Genetics [4]
BI 436        Genomics, Bioinformatics and Gene Evolution [4]
BI 438*       Microbiology [4]
BI 440        Practical Molecular Biology [4]
BI 442        Comparative Biomechanics [4]
BI 460        Cellular and Molecular Neurobiology [4] (BI 411 recommended)
BI 490        Internship in Biological Sciences [3]
BI 499        Honors Thesis [3]

*Designates course that satisfies the organismal requirement

To complete the 37 credit hour major:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI 111</td>
<td>1</td>
</tr>
<tr>
<td>BI 210</td>
<td>4</td>
</tr>
<tr>
<td>BI 220</td>
<td>4</td>
</tr>
<tr>
<td>BI 230</td>
<td>5</td>
</tr>
<tr>
<td>BI 299</td>
<td>1</td>
</tr>
<tr>
<td>BI 480</td>
<td>3</td>
</tr>
</tbody>
</table>

  TOTAL 18 credit hours

<table>
<thead>
<tr>
<th>Electives</th>
<th>Credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 with lab (4 cr. Each)</td>
<td>16</td>
</tr>
<tr>
<td>Additional electives</td>
<td>3‡</td>
</tr>
</tbody>
</table>

  TOTAL 19 credit hours

TOTAL FOR THE MAJOR: 37 CREDITS

‡Students exempt from BI 111 will need at least 4 elective hours in this category.

Requirements for a minor in Biology:
A total of 21 biology credit hours are required. Students must complete the three Fundamentals courses (BI 210, 220, 230) and eight hours of BI electives consisting of two courses with lab at the 300 level or above.