BIOLOGY, B.S. - PLANT SCIENCES OPTION

Major in Biology, BS

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORE COURSES</td>
<td></td>
<td>26</td>
</tr>
<tr>
<td>BIOL 211</td>
<td>Concepts of Zoology</td>
<td></td>
</tr>
<tr>
<td>BIOL 221</td>
<td>Concepts of Botany</td>
<td></td>
</tr>
<tr>
<td>BIOL 343</td>
<td>Principles of Ecology &amp; Evolution</td>
<td></td>
</tr>
<tr>
<td>BIOL 362</td>
<td>Cell and Developmental Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 364</td>
<td>Foundations of Genetics &amp; Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 472</td>
<td>Seminar In Biology</td>
<td></td>
</tr>
<tr>
<td>PRACTICAL EXPERIENCE - Choose 1 of the following:</td>
<td>4-15</td>
<td></td>
</tr>
<tr>
<td>BIOL 300</td>
<td>Co-Op Ed Experience in Biol</td>
<td></td>
</tr>
<tr>
<td>BIOL 498</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>BIOL 489</td>
<td>Honors Course</td>
<td></td>
</tr>
<tr>
<td>BIOL 499</td>
<td>Departmental Honors</td>
<td></td>
</tr>
</tbody>
</table>

Biology majors must earn grades of C- (C minus) or higher in all core courses.

Option in Plant Sciences - See separate block

Total Hours 30-41

Appendix 1. Foundations of Biology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td>Foundations of Biology C- or Higher</td>
<td>4</td>
</tr>
</tbody>
</table>

Concentration in Plant Sciences

In addition to Biology Core Courses, the Plant Sciences Concentration requires completion of a course sequence in Botany, Horticultural Science, Plant Biotech and Molecular, or Plant Ecology and the Environment in order to complete the required 52 credits for major.

UNDECLARED TRACK - DEFAULT TO BOTANY COURSE SEQUENCE

In addition to Biology Core Courses, the Plant Sciences Concentration requires completion of a course sequence in Botany, Horticultural Science, Plant Biotech and Molecular, or Plant Ecology and the Environment in order to complete the required 52 credits for major. You have not selected a track, so have been placed into the Botany track as a default. Click here to Access the Academic Program Change Request to declare your track.

Advanced Plant Science Electives - Choose 3 of the following: 9

| BIOL 325 | Plant Systematics         |       |
| BIOL 327 | Horticultural Science     |       |
| BIOL 329 | Plant-Insect Interactions |       |
| BIOL 424 | Mycology                  |       |

Biochemistry - Choose 1 of the following: 4

| BIOL 324 | Plant Biochemistry        |       |
| CHEM 326 | Biochemistry 1            |       |

Biochemistry (BIOL 375 recommended) - Choose 1 of the following: 3-4

| BIOL 375 | Biometry                 |       |

Total Hours 23-24

Req Related for Biology, BS

For Biology Majors the G2 block of the Liberal Arts Core will be fulfilled by your required related coursework.

CHEMISTRY

A C- or higher in CHEM 111 and 112 is a pre-requisite for CHEM 235. A C- or higher in CHEM 231 is a pre-requisite for CHEM 232. Students interested in graduate or professional school should take CHEM 231 and 232.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>Introductory Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>Introductory Chemistry 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Organic Chemistry - Choose 1 of the following options 1-2: 4-8

Option 1. Short-sequence (recommended)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 235</td>
<td>Organic Chemistry</td>
<td></td>
</tr>
</tbody>
</table>

Option 2. Long-sequence

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 231</td>
<td>Organic Chemistry 1</td>
<td></td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Organic Chemistry 2</td>
<td></td>
</tr>
</tbody>
</table>

COMPUTATIONAL

Calculus (MATH 151 recommended) - Choose 1 of the following: 4-5

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus for Management</td>
<td></td>
</tr>
<tr>
<td>MATH 161</td>
<td>Calculus 1</td>
<td></td>
</tr>
<tr>
<td>MATH 163H</td>
<td>Honors Calculus 1</td>
<td></td>
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</table>

PHYSICS

undefined - Choose 1 of the following options 1-2: 8-10

Option 1. Physics with Algebra

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 131</td>
<td>Physics 1 with Algebra</td>
<td></td>
</tr>
<tr>
<td>PHYS 132</td>
<td>Physics 2 with Algebra</td>
<td></td>
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</tbody>
</table>

Option 2. Physics with Calculus

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 231</td>
<td>Physics 1 with Calculus</td>
<td></td>
</tr>
<tr>
<td>PHYS 232</td>
<td>Physics 2 with Calculus</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 24-31