## Bachelor of Science, Biology, Botany Emphasis, 2012-2013

### General Degree Requirements

<table>
<thead>
<tr>
<th>Residency:</th>
<th>Total Credits:</th>
<th>KIN-ACT:</th>
<th>Remarks:</th>
<th>Date: 03/2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper-Division Credits:</td>
<td>G.P.A.:</td>
<td>Workshops:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Course Number and Title

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
<th>Completed</th>
<th>In Progress</th>
<th>Future</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101 Introduction to College Writing</td>
<td>3</td>
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<tr>
<td>ENGL 102 Intro to College Writing and Research</td>
<td>3</td>
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<tr>
<td>UF 100 Intellectual Foundations</td>
<td>3</td>
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<tr>
<td>UF 200 Civic and Ethical Foundations</td>
<td>3</td>
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<tr>
<td>DLM MATH 160 Survey of Calculus or MATH 170 Calculus I (MATH 170 is recommended for students planning to enter graduate or professional school and those in the Microbiology or Molecular Cell Biology emphases.)</td>
<td>4</td>
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<tr>
<td>DLN BIOL 191 General Biology I</td>
<td>4</td>
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<tr>
<td>DLN CHEM 111, 111L General Chemistry I with Lab</td>
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<tr>
<td>DLV Visual and Performing Arts</td>
<td>3</td>
<td></td>
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<tr>
<td>DLL Literature and Humanities</td>
<td>3-4</td>
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<tr>
<td>DLS Social Sciences course in a first field</td>
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<td></td>
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<tr>
<td>DLS Social Sciences course in a second field</td>
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<tr>
<td>BIOL 192 General Biology II</td>
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<td>BIOL 301 Cell Biology</td>
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<td>CID BIOL 323 Ecology</td>
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<td>BIOL 343 Genetics Lecture</td>
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<td>BIOL 400 Organic Evolution</td>
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<tr>
<td>BIOL 488 Senior Outcomes Assessment</td>
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<tr>
<td>CHEM 112, 112L General Chemistry II with Lab</td>
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<tr>
<td>CHEM 301-302 or CHEM 307, 308-309, 310 Organic Chemistry I &amp; II with Labs (CHEM 301-302 is suitable for most biology majors. Those interested in medical, dental, pharmacy, veterinary school and students pursuing the Microbiology or Molecular and Cell Biology emphases should take CHEM 307-310. Please consult your advisor.)</td>
<td>5-10</td>
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<tr>
<td>Two or more of these communication courses including at least one COMM course: COMM 101, COMM 112, COMM 231, COMM 356, ENGL 201, ENGL 202, (COMM 101, COMM 112, and ENGL 202 may be counted as fulfilling all or part of DLS requirements)</td>
<td>6</td>
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<tr>
<td>MATH 143-144 College Algebra and Analytic Trigonometry or MATH 147 Precalculus</td>
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<td>MATH 254 Applied Statistics with Computers</td>
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<tr>
<td>PHYS 111-112 General Physics or PHYS 211, 211L-212, 212L Physics I &amp; II with Calculus &amp; Labs</td>
<td>8-10</td>
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### Botany Emphasis

<table>
<thead>
<tr>
<th>Botany Emphasis</th>
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<tbody>
<tr>
<td>BDJO 305 Systematic Botany</td>
<td>4</td>
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<tr>
<td>FF BOT 401 Plant Physiology</td>
<td>4</td>
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</tbody>
</table>

### Additional upper-division botany credits

| Additional upper-division botany credits | 8 |

### Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits*

| Upper-division BIOL, BOT, or ZOOL electives to total 42 biology credits* | 5 |

### Upper-division elective to total 40 credits

| Upper-division elective to total 40 credits | 0-1 |

### Electives to total 120 credits**

<table>
<thead>
<tr>
<th>Electives to total 120 credits**</th>
<th>7-20</th>
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<tbody>
<tr>
<td>Total</td>
<td>120</td>
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</tbody>
</table>

*Workshops may not be counted towards upper-division biology credit; A maximum of 4 credits total of any combination of internship and independent study credit may be counted towards upper-division biology credit.

**Can include workshops and excess independent study and internship credits up to University limits. For students planning to pursue professional school or enter certain graduate schools, the following are recommended: Physics, Calculus, and second semester Organic Chemistry or Biochemistry. Students are urged to determine the exact requirements of schools they wish to attend and meet with an advisor to discuss appropriate preparatory course work.

All courses used toward the Biology major must have a grade of C- or better.

Name | ID# | Date