BACHELOR OF SCIENCE DEGREE
ENVIRONMENTAL BIOLOGY/ZOOLOGY
COORDINATE MAJOR

FOR ADDITIONAL INFORMATION, PLEASE CONTACT THE DEPARTMENT OF ZOOLOGY

(1) UNIVERSITY REQUIREMENTS

Writing Requirement
Tier I: LB 133 4
Tier II: Satisfied by completing the Lyman Briggs College History, Philosophy and Sociology of Science and Senior requirements listed below.

Integrative Studies in Arts & Humanities (IAH)
IAH 201-210* 4
IAH 211-241* † 4

Integrative Studies in Social, Behavioral & Economic Sciences (ISS)
ISS 200-level course* 4
ISS 300-level course* ‡ 4

*National, International, & Multicultural Diversity
Students must include at least one "N" course and one "I" course in their Integrative Studies programs. A "D" course may meet either an "N" or an "I" requirement, but not both.

†Beginning Summer 2013, LB 331, 333, and 336 will fulfill the IAH "B" university requirement (IAH 211 or higher). Please consult your LBC advisor for specific details for your program.

‡Beginning Summer 2013, LB 332, 334, and 335 will fulfill the ISS 300-level university requirement. Please consult your LBC advisor for specific details for your program.

Mathematics, Biological and Physical Sciences
Satisfied by the Lyman Briggs College requirements in Mathematics, Biological and Physical Sciences (see below).

Minimum number of credits required: 120
Minimum cumulative and major grade point average: 2.0

(2) LYMAN BRIGGS COLLEGE REQUIREMENTS

Biological Sciences (9 cr.)
Complete ONE of the following groups of courses
(1) LB 144 & 145* 9
(2) BS 161, 162, 171, & 172 10

Chemistry (9 cr.)
Complete ONE of the following groups of courses
(1) LB 171 & 171L* 8†
(2) CEM 141 & 161* 7†

Physics (8-10 cr.)
Complete ONE of the following groups of courses
(1) LB 273, 274* 8
(2) PHY 231, 232, 251, & 252* 8

Mathematics (7-8 cr.)
Complete ONE of the following groups of courses
(1) LB 118 & 119* 8
(2) LB 118 & STT 231* 7
(3) MTH 132 & 133 * 7
(4) MTH 132 & STT 231* 7

History, Philosophy & Sociology of Science (11-12 cr.)
LB 133 4
LB 330-336, 355, 490E; ENG 473A; HST 425; SOC 368 7-8

Senior Seminar (4 cr.)
LB 492 4

*Mathematics, Physics and Mathematics courses also satisfy graduation requirements for the major

‡LBC Chemistry requirement met with completion of CEM 251
### MAJOR REQUIREMENTS

Complete ALL of the following courses (24 cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CEM 251</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CEM 252</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CEM 255</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CSS 210</td>
<td>Fundamentals of Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>PLB 441</td>
<td>Plant Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ZOL 306</td>
<td>Invertebrate Biology</td>
<td>4</td>
</tr>
<tr>
<td>ZOL 341</td>
<td>Fundamental Genetics</td>
<td>4</td>
</tr>
<tr>
<td>ZOL 355</td>
<td>Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ZOL 355L</td>
<td>Ecology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ZOL 445</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>ZOL 483</td>
<td>Environmental Physiology</td>
<td>4</td>
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ENT 404 may be substituted for ZOL 306; FOR 404 may be substituted for PLB 441.

Complete ONE of the following courses (4 cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FW 471</td>
<td>Ichthyology</td>
<td>4</td>
</tr>
<tr>
<td>ZOL 360</td>
<td>Biology of Birds</td>
<td>4</td>
</tr>
<tr>
<td>ZOL 365</td>
<td>Biology of Mammals</td>
<td>4</td>
</tr>
<tr>
<td>ZOL 384</td>
<td>Biology of Amphibians &amp; Reptiles</td>
<td>4</td>
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Complete ONE course from each of the following groups (9-11 cr.)

1. PLB 218 Plants of Michigan 3
   PLB 418 Plant Systematics 3
2. FW 420 Stream Ecology 3
   PLB 424 Algal Biology 4
   ZOL 353 Marine Biology 4
   ZOL 485 Tropical Biology 3
3. FW 416 Marine Ecosystem Management 3
   FW 472 Limnology 3
   GLG 421 Environmental Geochemistry 4

Students must complete a minimum of 33 credits in Zoology courses. Zoology courses that are not listed above must be approved in writing by the student's academic advisor. Courses offered by other departments may be substituted for Zoology courses with the written approval of the student’s academic advisor.

**IMPORTANT:** These guidelines are presented for planning purposes only. Students MUST consult a department advisor for confirmation of major requirements.