### Program Worksheet: Honours Marine Biology

<table>
<thead>
<tr>
<th>First Year</th>
<th>BIOL 112 ____, BIOL 140 ____, BIOL 121 ____</th>
<th>One of: PHYS 101, 106, 107, 117, 131 ____</th>
<th>One of: MATH 100, 102, 104, 120, 180, or 184 ____</th>
<th>Communication Requirement 6cr of WRDS 150; SCIE 113; any of ENGL 100, 110, 111, 112, 120, or 121; SCIE 300 or CHEM 300; APSC 176; LFS 150; FRST 150, Arts One; ASTU 100, 101</th>
<th>31cr</th>
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<tbody>
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<td></td>
<td>CHEM 111/121 or CHEM 120 &amp; 115 ____</td>
<td>One of: CPSC 100, 103, 110, 301 or DSCI 100 ____</td>
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<td>and</td>
<td>30cr</td>
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<td>Second Year</td>
<td><em>Biology Fundamentals Courses:</em> BIOL 200 ____ BIOL 230 ____ BIOL 260 ____ BIOL 233 ____ Or BIOL 234 ____</td>
<td><em>Organismal Courses:</em> BIOL 205 ____ BIOL 209 ____</td>
<td>One of: CHEM 233 ____ CHEM 235 ____ or CHEM 203 ____ or CHEM 223 ____ CHEM 225 ____</td>
<td>Electives [3cr]: ____</td>
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**Minimum Total Credits = 132cr**

* One Organismal and/or one Fundamentals course can be deferred to third year.

**Biology Laboratory Selections:**
BIOL 301, 306, 331, 337, 340, 341, 342, 351, 352, 363, 402, 403, 404, or 437

Note: MRNE may be taken with the permission of a biology advisor.

***Life Science Selection:***

Note: Life Science Selections do not include BIOL 300 and 336. Four credits of Biology lab selections are required; additional credits from Biology Lab Selections may count as Life Science Selections [i.e., BIOL 351 (4cr) = 2cr Biology Lab Selections & 2cr Life Science Selections].
****Marine Biology Selections:
BIOL 325 – Introduction to Animal Mechanics and Locomotion
BIOL 428 – Evolutionary Morphology of Marine Invertebrates
BIOL 465 - Diversity and Evolution of Fishes
CONS 486 – Fish Conservation and Management
EOSC 372 – Introductory Oceanography: Circulation and Plankton
EOSC 373 – Introductory Oceanography: Climate and Ecosystems
EOSC 470 – Biological Oceanography
EOSC 475 – Marine Microbiology
Note: Any third- or fourth-year course in MRNE.

Faculty of Science Elective Requirements:
(May be any level if the upper-level requirement of 48 upper-level credits including at least 30 credits from the Faculty of Science is satisfied. Also, up to 18 credits of course work in a faculty other than Science or Arts may be taken for credit.)

- **Arts Electives - 12 credits** from the Faculty of Arts.
- **Electives** – May be from any faculty.