# Program Worksheet: Honours Marine Biology

<table>
<thead>
<tr>
<th>First Year</th>
<th>BIOL 112 ____</th>
<th>BIOL 140 ____</th>
<th>BIOL 121 ____</th>
<th>CHEM 111/121 ____</th>
<th>CHEM 113/123 ____</th>
<th>One of: PHYS 101, 107, 117 ____</th>
<th>One of: CPSC 100, 103, 110 ____</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; Arts One; ASTU 100, 101:</th>
<th>31cr</th>
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<tbody>
<tr>
<td>Second Year</td>
<td><strong>Biology Fundamentals Courses:</strong> BIOL 200 ____</td>
<td>BIOL 230 ____</td>
<td>BIOL 260 ____</td>
<td>BIOL 233 ____ Or BIOL 234 ____</td>
<td></td>
<td>*Organismal Courses: BIOL 205 ____ BIOL 209 ____</td>
<td></td>
<td>CHEM 233 ____ CHEM 235 ____ or CHEM 203 ____</td>
<td>Electives [3cr]:</td>
<td>30cr</td>
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<tr>
<td>Third Year</td>
<td>BIOL 300 ____</td>
<td>BIOL 347 ____</td>
<td>BIOL 320 ____</td>
<td>BIOL 326 ____</td>
<td>BIOL 336 ____</td>
<td><strong>Biological Lab Selections</strong> One from list:</td>
<td></td>
<td></td>
<td>Electives [12cr]:</td>
<td>71cr</td>
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<tr>
<td>Fourth Year</td>
<td>BIOL 447 ____</td>
<td>BIOL 449 ____</td>
<td></td>
<td></td>
<td></td>
<td>***Life Science Selections [9cr]:</td>
<td></td>
<td>Arts Electives [12cr]:</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, 331, 337, 340, 341, 342, 351, 352, 363, 404, 409, 437, MRNE 4xx

**Note:** MRNE may be taken with the permission of a Biology advisor

***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
BIOL 402 – Aquatic Ecology
BIOL 420 – Ocean Conservation and Sustainability
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 3rd or 4th year course in MRNE with permission of Biology advisor.

Faculty of Science Elective Requirements:
(May be any level as long as 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.