**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 123 ____</th>
<th>PHYS 101 ____</th>
<th>MATH 100, 102, 104, 110, 120, 180, or 184 ____</th>
<th>MATH 101, 103, 105, or 121 ____</th>
<th>Electives [3cr]: ________</th>
<th>Communication Requirement 6cr of ENGL 100, 110, 111, 112, 120, 121 or SCIE 113:</th>
<th>31cr</th>
</tr>
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<tbody>
<tr>
<td>Second Year</td>
<td>*Biology Fundamentals Courses:</td>
<td>BIOL 200 ____</td>
<td>BIOL 230 ____</td>
<td>BIOL 260 ____</td>
<td>BIOL 233 ____</td>
<td>Or BIOL 234 ____</td>
<td>*Organismal Courses:</td>
<td>BIOL 205 ____</td>
<td>BIOL 209 ____</td>
<td>CHEM 233 ____</td>
<td>CHEM 235 ____</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>Biology Lab Selections One from list:</strong></td>
<td>****Marine Biology Selections [12cr]:</td>
<td></td>
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<tr>
<td>Fourth Year</td>
<td>BIOL 447 ____</td>
<td>BIOL 449 ____</td>
<td>***Life Science Selections [9cr]:</td>
<td></td>
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<td>Arts [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, 337, 340, 341, 342, 351, 352, 363, 404, 409, 437, 444, MRNE 4xx

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

***Life Science Selection:**
****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 315 – The Ocean Ecosystem
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.

For advising please contact Shona Ellis, Assoc. Head of Biology (shona@mail.ubc.ca).