## Program Worksheet: Honours Marine Biology

### First Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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</thead>
<tbody>
<tr>
<td>BIOL 112</td>
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<tr>
<td>BIOL 140</td>
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<tr>
<td>BIOL 121</td>
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<tr>
<td>CHEM 111/121</td>
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<tr>
<td>CHEM 113/123</td>
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</tbody>
</table>

*One of:*

- PHYS 101, 107, 117
- CPSC 100, 103, 110
- MATH 100, 102, 104, 120, 180, or 184

- 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:

### Second Year

**Biology Fundamentals Courses:**

- BIOL 200
- BIOL 230
- BIOL 260
- BIOL 233
- Or
- BIOL 234

**Organismal Courses:**

- BIOL 205
- BIOL 209
- CHEM 233
- CHEM 235
- CHEM 203

*One of:*

- CPSC 100, 103, 110
- MATH 101, 103, 105, or 121

### Third Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>BIOL 300</td>
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<tr>
<td>BIOL 347</td>
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<tr>
<td>BIOL 320</td>
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<tr>
<td>BIOL 326</td>
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<tr>
<td>BIOL 336</td>
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**Biology Lab Selections:**

- One from list:

- **Marine Biology Selections [12cr]:**

  - Electives [12cr]:

### Fourth Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>BIOL 447</td>
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<tr>
<td>BIOL 449</td>
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</tbody>
</table>

### Minimum Total Credits = 132cr

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

**Biological 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 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
BIOL 402 – Aquatic Ecology
BIOL 420 – Ocean Conservation and Sustainability
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:
(Any 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.