

## Program Worksheet: Honours Marine Biology

<b>First Year</b>	BIOL 112 ____ BIOL 140 ____ BIOL 121 ____  CHEM 111/121 ____ CHEM 113/123 ____	<i>One of:</i> PHYS 101, 107, 117 ____  <i>One of:</i> CPSC 100, 103, 110 ____	<i>One of:</i> MATH 100, 102, 104, 120, 180, or 184 ____  <i>One of:</i> MATH 101, 103, 105, or 121 ____	<b>Communication Requirement 6cr of</b> 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:  _____ and _____  Electives [3cr]: _____	31cr
<b>Second Year</b>	<b>*Biology Fundamentals Courses:</b> BIOL 200 ____ BIOL 230 ____ BIOL 260 ____  BIOL 233 ____ Or BIOL 234 ____	<b>*Organismal Courses:</b> BIOL 205 ____ BIOL 209 ____	CHEM 233 ____ CHEM 235 ____ or CHEM 203 ____	Electives [3cr]: _____	30cr
<b>Third Year</b>	BIOL 300 ____ BIOL 347 ____ BIOL 320 ____ BIOL 326 ____ BIOL 336 ____	<b>**Biology Lab Selections</b> <u>One from list:</u> _____ _____ _____	<b>****Marine Biology Selections [12cr]:</b> _____ _____ _____ _____  Arts Electives [12cr]: _____ _____ _____ _____	Electives [12cr]: _____ _____ _____ _____	71cr
<b>Fourth Year</b>	BIOL 447 ____ BIOL 449 ____	<b>***Life Science Selections [9cr]:</b> _____ _____ _____	Arts Electives [12cr]: _____ _____ _____		
<b>Minimum Total Credits = 132cr</b>					

\* 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 Selection:**

Life Science selections that count towards the Science credit requirement: Any third- or fourth-year course in BIOC, BIOL, CAPS, MICB, MRNE, or PHYL that is open to Life Science majors plus: ANAT 390, 391, EOSC 470, 471, 474, 475, 478, GEOB 307, 407, FNH 350, 351, 451, MATH 462, MEDG 410, 419, 420, 421, PCTH 305. Life Science selections that do not count towards the Science credit requirement: APBI 311, 312, 314, 315, 318, 342, 401, 411, 418, 419, 444, CONS 330, 440, 486, FRST 302, 310, 385, 386, 395, 399, 420, 444, 485, 495.

**\*\*\*\*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.