

Program Worksheet: Honours Marine Biology

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| First Year | BIOL 112 _____ BIOL 121 _____ BIOL 140 or 180 _____ One of CHEM 111, 121, 141 or CHEM 120 & 115 _____ CHEM 123 or CHEM 130 & 135 _____ | <i>One of:</i> PHYS 101, 106, 107, 117, 131 _____ <i>One of:</i> CPSC 100, 103, 110, 301 or DSCI 100 _____ | <i>One of:</i> MATH 100, 102, 104, 110, 120, 180, or 184 _____ <i>One of:</i> MATH 101, 103, 105, or 121 _____ | 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 _____ and _____ Electives [3cr]: _____ | 31cr |
| Second Year | *Biology Fundamentals Courses: BIOL 200 _____ BIOL 230 _____ BIOL 234 _____ BIOL 260 _____ | *Organismal Courses: BIOL 205 _____ BIOL 209 _____ | <i>One of:</i> CHEM 233 _____ CHEM 235 _____ or CHEM 203 _____ or CHEM 223 _____ CHEM 225 _____ | Electives [3cr]: _____ | 30cr |
| Third Year | BIOL 300 _____ BIOL 347 _____ BIOL 320 _____ BIOL 326 _____ BIOL 336 _____ | **Biology Lab Selections <u>One from list:</u> _____ | ****Marine Biology Selections [12cr]: _____ _____ _____ _____ | Electives [12cr]: _____ _____ _____ _____ | 71cr |
| Fourth Year | BIOL 447 _____ BIOL 449 _____ | ***Life Science Selections [9cr]: _____ _____ _____ | Arts Electives [12cr]: _____ _____ _____ _____ | | |
| Minimum Total Credits = 132cr | | | | | |

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

****Biology Laboratory Selections:**

BIOL 301, 306, 311, 331, 337, 340, 341, 351, 352, 363, 402, 403, 404, or 437

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

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.

*****Life Science Selection:**

Life Science selections that count towards the Science credit requirement: Any third- or fourth-year course in BIOC, CAPS, MICB, or MRNE that is open to Life Science majors plus: ENVR 430, EOSC 470, 474, 475, 478, GEOS (or GEOB) 307, 407, FNH 350, 351, 451, MATH 462, MEDG 410, 419, 420, 421, PCTH 305, 325. Life Science selections that do not count towards the Science credit requirement: APBI 311, 312, 314, 315, 318, 342, 401, 411, 418, 419, 442, 444, CONS 330, 440, 486, 496, FRST 302, 310, 385, 386,

395, 399, 444, 485, 495.

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 402 – Aquatic Ecology

BIOL 420 – Ocean Conservation and Sustainability

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.