# Program Worksheet: Honours Marine Biology

| First Year | BIOL 112 ____  
| BIOL 121 ____  
| BIOL 140 or 180 ____  
| CHEM 121 or CHEM 120 & 115 ____  
| CHEM 123 or CHEM 130 & 135 ____  

| Second Year | *Biology Fundamentals Courses:  
| BIOL 200 ____  
| BIOL 230 ____  
| BIOL 260 ____  
| BIOL 233 or 234 ____  

| Third Year | BIOL 300 ____  
| BIOL 347 ____  
| BIOL 320 ____  
| BIOL 326 ____  
| BIOL 336 ____  

| Fourth Year | BIOL 447 ____  
| BIOL 449 ____  

|  | Communications 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  

|  | Electives [3cr]:  

|  | 31cr  

|  | 30cr  

|  | 71cr  

|  | Minimum Total Credits = 132cr  

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

**Biology Laboratory Selections:**
BIOL 306, 331, 337, 340, 341, 342, 351, 352, 363, 402, 403, 404, or 437

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

***Life Science Selection:**

**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 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.

**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.