**Cornell University, College of Agriculture and Life Sciences**

**Minor Program of Study in Marine Biology**

**PART I: Registration of Intent**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

Phone #:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Net ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Current Major: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Additional Minor(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Advisor’s name/Department \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Expected Date of Graduation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**To register your intent**, please send an electronic copy of this form with PART 1 filled out, and a description of your plans to fulfill the field experience requirement to Dr. Matt Hare ([mph75@cornell.edu](mailto:mph75@cornell.edu)) and copy Suzanne Wapner ([sw38@cornell.edu](mailto:sw38@cornell.edu)).

**PART II: Verification of requirements (Complete prior to graduation):**

­A minimum of 15 Credits total is required from Group A + Group B courses. At least 2 courses in Group B must **not** be used to ‘double count’ by also fulfilling the student’s major requirements. Courses that fulfill the field requirement have an asterisk (\*). Courses with SEA prefix are offered off-campus or on board a sailing vessel at sea, those that end in SM are at Shoals Marine Station during summer.

N.B. Only courses for which a grade of C or better is received will count toward the minor in Marine Biology (Courses with an “S/U” option will not count.)

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| --- | --- | --- | --- |
| **Courses** | **Semester** | **Grade** | **Req. for major?** |
| ***Group A Introductory Courses (1 required from below)*** |  |  |  |
| BioEE/EAS 1540 - Introductory Oceanography (3 cr) |  |  |  |
| BioEE/EAS 1560 - Introductory Oceanography (4 cr w/lab) |  |  |  |
| BioSM 1500 - Investigative Marine Biology Laboratory (3 cr) |  |  |  |
| BioSM 1780 - Evolution and Marine Diversity (4 cr, Su) |  |  |  |
| BioSM 1610 - Ecology and the Marine Environment (3 cr)\* |  |  |  |
| SEA 3660 - Oceanography (3 cr)\* |  |  |  |
| BIOSM 1551-Field Intro. Oceanography Lab (1-3 cr, Su)\* |  |  |  |
|  |  |  |  |
| ***Group B Courses (12 Credits required from below)*** |  |  |  |
| **S = Spring, F = Fall, Su = Summer** |  |  |  |
| BIOEE 2740 - The Vertebrates: Comparative Anatomy, Function and Evolution (4 cr, S) |  |  |  |
| BIOEE 3750 - The Vertebrates: Advanced Topics in Morphology, Development and Evolution (2 cr, S) prereq = BIOEE 2740 |  |  |  |
| BIOEE 4760 - Biology of Fishes, Lectures (3 cr, F) |  |  |  |
| BIOEE 4761 – Biology of Fishes, Laboratory (1 cr, F) |  |  |  |
| BIOEE/EAS 4790 - Paleobiology (4 cr, S) |  |  |  |
| BIOMI 3500/EAS 3555 - Biological Oceanography and Ocean Biogeochemistry (3 cr, S) |  |  |  |
| BIOSM 2500 - Coastal Habitat Field Research Methods (3 cr, Su)\* |  |  |  |
| BIOSM 2800 - Sustainable Fisheries (3 cr, Su) |  |  |  |
| BIOSM 3210 - Anatomy and Function of Marine Vertebrates (3 cr, Su)\* |  |  |  |
| BIOSM 3290 - Field Animal Behavior (3 cr, Su)\* |  |  |  |
| BIOSM 3330 - Marine Parasitology and Disease (3 cr, Su) |  |  |  |
| BIOSM 3450 – Marine Mammal Biology (3 cr)\* |  |  |  |
| BIOSM 3650 – Underwater Research (3 cr, Su)\* |  |  |  |
| BIOSM 3750 - Integrated Ecosystem Research and Management (3 cr, Su) |  |  |  |
| BIOSM 3830 – Field Marine Invertebrate Biology (3 cr, Su) \* |  |  |  |
| BIOSM 4650 - Shark Biology and Conservation (3 cr, Su) |  |  |  |
| BIOSM 4720 – Marine Ecological Genomics (3 cr, Su) |  |  |  |
| EAS/BIOEE 3500 - Dynamics of Marine Ecosystems in a Changing Ocean (3 cr, F) |  |  |  |
| EAS 3540 – Ocean Satellite Remote Sensing (3 cr, S, 9 week intensive) |  |  |  |
| NTRES 3110 - Fish Ecology, Conservation, and Management (3 cr, S) |  |  |  |
| NTRES 3111 - Fish Ecology Laboratory (1 cr, S) |  |  |  |
| NTRES 4110 - Quantitative Ecology and Management of Fisheries Resources (4 cr, S) |  |  |  |
| SEA 3665 - The Ocean and Global Change (4 cr, SEA semester) \* |  |  |  |
| SEA 3690 - Oceanographic Field Methods (4 cr, SEA semester)\* |  |  |  |
| SEA 3700 - Practical Oceanographic Research (4 cr, SEA semester)\* |  |  |  |
| SEA 3710 - Marine Environmental History (4 cr, SEA semester)\* |  |  |  |
| SEA 3730 - Toward a Sustainable Ocean: Conservation and Management (3 cr, SEA semester) \* |  |  |  |
| SEA 3780 - Oceans in the Global Carbon Cycle (4 cr, SEA semester)\* |  |  |  |
| SEA 3800 - Advanced Oceanographic Field Methods (4 cr, SEA semester)\* |  |  |  |
| SEA 4640 - Advanced Topics in Biological Oceanography (4 cr, SEA semester)\* |  |  |  |
| EAS 3540 – Ocean Satellite Remote Sensing (3 cr, S, 9 week intensive) |  |  |  |

**Field Experience Requirement**

Please provide a brief description of the field experience completed. If field course, please indicate course code, semester taken, and grade:

**Transcript:** Please attach a copy of your official transcript on which you have highlighted or underlined each of the courses listed above (when applying to graduate).

**Signature:** Please sign below and submit this completed form and transcript electronically to Suzanne Wapner ([sw38@cornell.edu](mailto:sw38@cornell.edu)) and copy Dr. Matt Hare ([mph75@cornell.edu](mailto:mph75@cornell.edu)). By signing, you certify that the information supplied on this form and transcript is accurate and that you have completed the necessary coursework and complied with the terms of the marine biology minor program.

Student’s Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For use by the Minor Coordinator:

Administrative Contact certifying minor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_