



Bachelor of Science in Biology – Marine Biology

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The Marine Biology Program:

Marine Biology Program differs from the overall biology curriculum in the following ways:

The capstone senior experience is different:

We have two Capstone courses taken in the fall and spring of the senior year:

- BIOL B490— Marine Policy (3 credits) every Fall
- BIOL B450/B450L— Biol. Oceanography (and lab) (3/1) every Spring

Also required are:

- BIOL B475/B475L— Marine Ecology (and lab) (3/1) Spring Even
- PHYS B2X2/B2X2L— Physics II (and lab) (3/1) every Spring

A summer internship relevant to Marine Biology, can be science or policy based (0 credits)

The summer internship is critical to having the practical experience to 1) landing a good job, 2) getting into a research program (job or graduate school), or 3) working with State or Federal agencies on graduation from USCB.

For upper level electives, you can choose as you please, but we recommend the following:

BIOL B399— Independent Research (related to Marine Biology) (variable up to 3/course) different times based on student interest and faculty availability

BIOL B410— Invertebrate Zoology (+lab) (4) Fall Even

BIOL B411— Marine Adaptations (+lab) (4) Fall Odd

BIOL B425— Marine Plants (+ lab) (4) not offered regularly

BIOL B436— Ichthyology (+ lab) (4) Fall Even

BIOL B471— Conservation Biology (+ lab) (4) Spring Odd

BIOL B475/B475L— Marine Ecology and Lab (3/1) Spring Even

BIOL B480— Molecular Ecology (3) Spring Odd

BIOL B448— Life and Death in the Salt Marsh (4) Maymester

BIOL B499— Special Topics (related to Marine Biology) (variable up to 3/course) different times based on student interest and faculty availability

The following is a suggested program of schedule for a 4-year completion of the Marine Biology program. You do not have to take these courses in this precise order, but the more you vary from this prescribe curriculum—the more likely a conflict in scheduling might make things more difficult for your timely completion of your degree.

| Curriculum by Year | | | | | |
|-------------------------------------------------------------------------|---------|---------------------------------------------------|---------|-----------------------------------|---------|
| Courses in Blue are Required for the Concentration (15 Credit Hours) | | | | | |
| Course Name | Credits | Course Name | Credits | Course Name | Credits |
| Year 1 | | | | | |
| Fall | | Spring | | Summer | |
| ENGL B101 English Composition | 3 | ENGL B102 Engl. Comp & Lit | 3 | | |
| MATH B111 or B115 Algebra or Precalculus | 3(4) | MATH B115 or B141 Precalculus or Calculus I* | 4 | | |
| BIOL B101 Biological Principles I | 4 | BIOL B102 Biol. Principles II | 4 | | |
| PSYC B101 Psychology | 3 | CHEM B111 Gen. Chemistry I | 4 | | |
| BIOL B290 Biology or B100 Honors Seminar | 1 | | | | |
| Total Semester Hours | 14 + | Total Semester Hours | 15 | | |
| Year 2 | | | | | |
| Fall | | Spring | | Summer | |
| BIOL B301 Ecology & Evolution (w/Lab) or BIOL B303 Fundamental Genetics | 4 3 | BIOL B302/302L Cell & Molecular Biology with Lab. | 4 | BIOL B401 Internship (1 required) | 0 |
| CHEM B112 General Chemistry II | 4 | CHEM B333/B331L Organic Chemistry I(w/Lab) | 3(1) | | |
| MATH B141 or B142 Calculus I or II* | 4 | MATH B142 Calculus II* or GE/Elective | 4(3) | | |
| GE/Elective or Foreign Language | 3 | Foreign Language | 3 | | |
| Total Semester Hours | 17 | Total Semester Hours | 14+ | Hours | 0 |
| Year 3 | | | | | |
| Fall | | Spring | | Summer | |
| BIOL B301 Ecology & Evolution (w/Lab) or BIOL B303 Fundamental Genetics | 4 3 | BIOL B475/B475L Marine Ecology (w/Lab) (required) | 4 | BIOL B401 Internship (1 required) | 0 |
| CHEM B334 Organic Chem. II | 3 | BIOL B399+ Marine Biology Elective (w/Lab) | 3(4) | BIOL B448 (Maymester elective) | 4 |
| CHEM B332L Organic Chem. II Lab | 1 | STAT B201 Elementary Stats | 3 | | |
| PHYS B2X1† Physics I | 3 | PHYS B2X2† Physics II (required) | 3 | | |
| PHYS B2X1L† Physics I Lab | 1 | PHYS B2X2L† Physics II Lab (req'd) | 1 | | |
| GE/Electives | 6 | GE/Elective ² | 3 | | |
| Total Semester Hours | 14+ | Total Semester Hours | 14+ | Hours | 0 |
| Year 4 | | | | | |
| Fall | | Spring | | Summer | |
| BIOL B490 Marine Policy (required) | 3 | BIOL 450 Biol. Oceanography (req'd) | 3 | | |
| BIOL B399+ Marine Biology Elective (w/ Lab) | 3(4) | BIOL 450L Biol. Ocean. Lab (req'd) | 1 | | |
| BIOL B399+ Marine Biology Elective (w/ Lab) | 3(4) | GE/Elective | 3 | | |
| GE/Elective | 3 | GE/Elective | 3 | | |
| GE/Elective | 3 | GE/Elective | 3 | | |
| Total Semester Hours | 15+ | Total Semester Hours | 14 | Hours | 0 |

*Math requirements to satisfy degree; either: MATH B141/B142, MATH B141/B170, MATH B141/B172, MATH B122/B170, or MATH B122/B172

† Either PHYS B201/201L and B202/202L **OR** PHYS B211/211L and B212/212L are acceptable.