The Marine Conservation option provides a B.S. Marine Biology degree plan that is designed for students primarily interested in the biological aspects of conservation science in marine environments (e.g., community ecology, population biology, biogeography, conservation genetics and assessment of threatened or endangered species and habitats).

A major in Marine Biology can be declared after completing 24 credit hours and BIO 201 and BIO 202, or equivalent courses, with a grade of ‘C’ (2.00) or better in both courses.

Core Requirements: (28 hours total)
- 201 Principles of Biology: Cells (4)
- 202 Principles of Biology: Biodiversity (4)

***BIO 201 and 202 are the prerequisite courses for all biology courses numbered 300 and above***

- 335 Genetics with lab (3) (1), prerequisites: BIO 201 and BIO 202
- Physiology, chosen from one of the following bullets:
  - 325 Molecular Biology of the Cell with lab (3) (1), prerequisites: BIO 201, BIO 202, and CHM 211/CHML 211
  - 340 Plant Physiology (4), prerequisites: BIO 201, BIO 202, and CHM 102
  - 345 Animal Physiology with lab (3) (1), prerequisites: BIO 201, BIO 202, and CHM 102
- 362 Marine Biology (4), prerequisite or corequisite: BIO 366
- 366 Ecology with lab (3) (1), prerequisite: BIO 201 and BIO 202
- 466 Conservation Biology (3); prerequisites: BIO 201 and BIO 202
- 495 Seminar (1), prerequisites: BIO or MBY major; BIO 201, 202, 335, 366, and a physiology course

Applied Learning -- To satisfy the applied learning requirement for the B.S. in marine biology a student must successfully complete one of the following: honors in any science department (BIO 499, CHM 499, EVS 499, GLY 499, MAT 499, PSY 499, PHY 499); directed individual study involving hands-on experience in any science department (BIO 491, CHM 491, EVS 491, GLY 491, MAT 491, PSY 491, PHY 491); BIO 498 Internship, BIO 493 Teaching Practicum; formal student teaching experience taken for UNCW credit (e.g. EDNL 406, EDN 409, EDN 411); BIO 480 Field Studies; BIO 495 Senior Seminar.

Marine Biology Requirements (8 Hours) (prerequisite for all: BIO 362)
- 312 Marine Botany (4) or 313 Marine Phycology (4)
- 318 Invertebrate Zoology (4) or 357 Ichthyology and 357L Ichthyology Lab (3, 1)

Marine Biology Electives: a minimum of 10 hours chosen from the courses listed below and not used to satisfy other requirements.

<table>
<thead>
<tr>
<th>312 Marine Botany</th>
<th>380 Mariculture</th>
<th>478 Global Environ. Problems</th>
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<tbody>
<tr>
<td>313 Marine Phycology</td>
<td>430 Evolutionary Biology</td>
<td>486 Advanced Topics in Mariculture</td>
</tr>
<tr>
<td>318 Invertebrate Zoology</td>
<td>434 Coastal Marine Ecology</td>
<td>487 Intro. to Coastal Management</td>
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<tr>
<td>357 Ichthyology</td>
<td>452 Mammalology</td>
<td>491 Directed Individual Study</td>
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<td>358 Marine Mammals</td>
<td>458 Fisheries Biology</td>
<td>498 Internship in Biological Sciences</td>
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<td>367 Antarctic Ecology</td>
<td>462 Deep Sea Biology</td>
<td>499 Honors work in Biology</td>
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<tr>
<td>368 Behavioral Ecology</td>
<td>463 Coral Reef Ecology</td>
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</tbody>
</table>

Total elective hours

Collateral Requirements: (29 hours minimum)
- Chemistry 101 (4)
- Chemistry 102 (4)
- Chemistry 211 and CHML 211 (3, 1) (prerequisite CHM 102)
- OCN 150 Intro to Oceanography (3) (course has separate lab that is not required for this major)
- Physics 101 (co-requisite MAT 111) or 201 (co-requisite MAT 161) (4)
- Physics 102 (co-requisite MAT 111) or 202 (co-requisite MAT 162) (4)
- Mathematics 151 (3) or 161 (4)
- Statistics 215 (3)

A “C” (2.00 GPA) or better average in Biology courses numbered above 299 and an overall 2.00 GPA in all courses are required for graduation.

Last updated: 4/11/18