MARINE BIOLOGY OPTION

This option is offered within the following major(s):

- Biology - College of Science (http://catalog.oregonstate.edu/college-departments/science/school-life-sciences/integrative-biology/biology-bs-hbs/)

The Marine Biology option is designed to give students a strong background in the biology of marine organisms and their habitats. The core biological sciences background of the Biology major is coupled with field and laboratory course work in marine biology, ecology, conservation, and oceanography. The option emphasizes research and includes experiential courses completed in residence at the OSU Hatfield Marine Science Center in Newport, Oregon. Additional research or internship experience is strongly recommended for option students, and three credits can be applied to the option electives. The Marine Biology option provides excellent preparation for graduate programs in marine biology. Students completing the Marine Biology option cannot seek the Marine Biology and Ecology minor.

Option Code: 572

Options in the Biology major require 15 or fewer additional credits (one term) beyond the basic Biology major, and most students can complete the additional Marine Biology option course work in four years. Courses used to satisfy the Marine Biology option also satisfy the Biology and Society, Organismal Biology, Physiology, Writing Intensive Course, Physics/Computer Science and Quantitive Applications, and Experiential Learning or Integrative Biology electives in the Biology major.

At least one term in residence at Hatfield Marine Science Center is required (spring or summer). The 15-credit BI 450 Marine Biology and Ecology course is taught each spring term at Hatfield Marine Science Center and is by application only. The course covers marine invertebrates, algae and fishes, as well as sections on marine ecology, conservation and policy. It also includes an undergraduate research project. Students apply to, and are accepted, the fall term before the spring they plan to attend. Applications are available in the Integrative Biology Office, Cordley Hall 3029. The summer term (https://hmsc.oregonstate.edu/academics/courses-hm/sc/summer-term/) at Hatfield does not require an application and includes a variety of courses.

BI 111 is an optional weekend experiential course at Hatfield Marine Science Center that complements other option coursework, particularly for students with little or no previous marine experience.

For further information, see MyDegrees or the Integrative Biology website (http://ib.oregonstate.edu).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BI 150</td>
<td>INTRODUCTION TO MARINE BIOLOGY (or select an additional upper-division marine elective below)</td>
<td>3</td>
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<tr>
<td>BI 347</td>
<td>OCEANS IN PERIL</td>
<td>3</td>
</tr>
<tr>
<td>OC 201</td>
<td>OCEANOGRAPHY</td>
<td>4</td>
</tr>
<tr>
<td>Z 423</td>
<td>ENVIRONMENTAL PHYSIOLOGY</td>
<td>3</td>
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Hatfield Marine Science Center Tracks

Select one of the following tracks: 15-18

- Spring Track (by admission only)
  - BI 450 *MARINE BIOLOGY AND ECOLOGY (taught at Hatfield Marine Science Center)

- Summer Track (not all courses are taught in summer)

Experiential Learning or Marine Elective Courses

Select one of the following tracks: 3

Track I Experiential Learning Credits

Select any combination of three credits from the following:

- BI 401 RESEARCH AND SCHOLARSHIP (by approval)
- BI 406 PROJECTS: CURATORIAL ASSISTANT (by approval)
- BI 410 INTERNSHIP (by approval)

Track II Marine Elective

Select one course from the following:

- BI 353 PACIFIC NORTHWEST COASTAL ECOSYSTEMS (if not used for requirements above) (taught at Hatfield Marine Science Center)
- BI 358 SYMBIOSES AND THE ENVIRONMENT
- BI 485 MONSTER BIOLOGY
- BOT 416 AQUATIC BOTANY (if not used for requirements above)
- FW 302 BIOLOGY AND CONSERVATION OF MARINE MAMMALS (taught at Hatfield Marine Science Center) 2
- or FW 315 ICHTHYOLOGY
- or FW 316 SYSTEMATICS OF FISHES
- or FW 331 ECOLOGY OF MARINE AND ESTUARINE BIRDS
- or FW 421 AQUATIC BIOLOGICAL INVASIONS
- or FW 434 ESTUARINE ECOLOGY
- or FW 434/OC MONITORING MARINE ECOLOGY (by approval)
- or FW 469 METHODS IN PHYSIOLOGY AND BEHAVIOR OF MARINE MEGAFAUNA
- or FW 476 FISH PHYSIOLOGY
- MB 314 AQUATIC MICROBIOLOGY (MB 422 is optional)
- OC 440 BIOLOGICAL OCEANOGRAPHY (taught at Hatfield Marine Science Center)

Total Credits: 31-34

* Baccalaureate Core Course (BCC)
* Writing Intensive Course (WIC)

1 If you did not complete BI 150, select a Marine Elective Course to replace it
2 FW 302, FW 331, FW 421 and FW 469 are all taught at Hatfield Marine Science Center

FW 315 may only be selected if not used for the summer track requirement

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