

# MARINE BIOLOGY, ASSOCIATE OF SCIENCE

The Associate of Science (AS) Marine Biology is designed for students who intend to transfer to the University of Oregon (UO) and complete their bachelor's degree at the Oregon Institute of Marine Biology (OIMB) in marine biology. The background offered by this major, however, is entirely appropriate for preparation for upper division emphasis in other professional fields such as medical, dental or veterinary school. Career options for marine biology graduates include jobs in state and federal government, advanced training for research and teaching in the marine sciences, and most other careers available to broadly trained biologists.

## ENTRY REQUIREMENTS:

Students are required to take the following courses prior to the program courses, achieve placement beyond these courses: MTH95 Intermediate Algebra; WR90 Paragraph Fundamentals (or placement in higher writing course) or WR90R Academic Literacy.

| Course                                | Title                                                              | Credits   |
|---------------------------------------|--------------------------------------------------------------------|-----------|
| <b>First Year</b>                     |                                                                    |           |
| <b>Fall</b>                           |                                                                    |           |
| BI221Z                                | Principles of Biology: Cells                                       | 5         |
| CHEM221Z                              | General Chemistry I                                                | 4         |
| CHEM227Z                              | General Chemistry I Laboratory                                     | 1         |
| MTH111Z                               | Pre-Calculus                                                       | 4         |
| WR121Z                                | Composition I                                                      | 4         |
| <b>Credits</b>                        |                                                                    | <b>18</b> |
| <b>Winter</b>                         |                                                                    |           |
| BI222Z                                | Principles of Biology: Organisms                                   | 5         |
| CHEM222Z                              | General Chemistry II                                               | 4         |
| CHEM228Z                              | General Chemistry II Laboratory                                    | 1         |
| MTH112Z                               | Precalculus II: Trigonometry                                       | 4         |
| WR122Z<br>or WR227Z                   | Composition II<br>or Technical Writing                             | 4         |
| <b>Credits</b>                        |                                                                    | <b>18</b> |
| <b>Spring</b>                         |                                                                    |           |
| BI142                                 | Habitats: Marine Biology                                           | 4         |
| BI223Z                                | Principles of Biology: Ecolo/Evolut                                | 5         |
| CHEM223Z                              | General Chemistry III                                              | 4         |
| CHEM229Z                              | General Chemistry III Laboratory                                   | 1         |
| GS108                                 | Oceanography                                                       | 4         |
| <b>Credits</b>                        |                                                                    | <b>18</b> |
| <b>Second Year</b>                    |                                                                    |           |
| <b>Fall</b>                           |                                                                    |           |
| COMM111Z                              | Public Speaking                                                    | 4         |
| MTH251Z                               | Differential Calculus                                              | 4         |
| PH201<br>or PH211                     | General Physics I: Mechanics<br>or General Physics with Calculus I | 5         |
| Cultural Literacy Course <sup>1</sup> |                                                                    | 3         |
| <b>Credits</b>                        |                                                                    | <b>16</b> |

|                                       |                                                                                    |               |
|---------------------------------------|------------------------------------------------------------------------------------|---------------|
| <b>Winter</b>                         |                                                                                    |               |
| MTH252Z                               | Integral Calculus                                                                  | 4             |
| PH202<br>or PH212                     | General Physics II: Heat, Waves, Relativity<br>or General Physics with Calculus II | 5             |
| Cultural Literacy Course <sup>2</sup> |                                                                                    | 3-4           |
| Social Science Course <sup>3</sup>    |                                                                                    | 3-4           |
| <b>Credits</b>                        |                                                                                    | <b>15-17</b>  |
| <b>Spring</b>                         |                                                                                    |               |
| PE231                                 | Wellness for Life (or a PE185 course)                                              | 3             |
| Arts and Letters Course <sup>4</sup>  |                                                                                    | 3-4           |
| Arts and Letters Course <sup>5</sup>  |                                                                                    | 3             |
| Social Science Course <sup>6</sup>    |                                                                                    | 3-4           |
| <b>Credits</b>                        |                                                                                    | <b>12-14</b>  |
| <b>Total Credits</b>                  |                                                                                    | <b>97-101</b> |

<sup>1</sup> Select from ANTH224 or GEOG105 (UO DIFFERENCES, INEQUITY, AGENCY)

<sup>2</sup> Select from A&L list or HUM204, HUM205, HUM206 or ENG107, ENG108 (UO GLOBAL PERSPECTIVE)

<sup>3</sup> Sct from HST101, HST102, HST103 or HST201, HST202, HST203 or SOC204Z or ANTH221

<sup>4</sup> Select from select from MUS205, MUS206, PHL102, PHL103 or ART204, ART205, ART206, ART253, ART256 or COMM100Z, COMM111Z, COMM218Z or ENG104Z, ENG105Z, ENG106Z, ENG109, ENG253, ENG254, ENG255

<sup>5</sup> Select from PS201, PS202, PS203 or PSY201Z, PSY202Z, PSY237, PSY239, PSY243 or SOC205Z, SOC206Z, SOC208, SOC213, ANTH222, ANTH223

<sup>6</sup> Select from select from MUS205, MUS206, PHL102, PHL103 or ART204, ART205, ART206, ART253, ART256 or COMM100Z, COMM111Z, COMM218Z or ENG106Z, ENG109, ENG104Z, ENG105Z, ENG253, ENG254, ENG255