

## Bachelor of Science, Biology – Marine Biology Concentration (BI-M): 2020-2021 Catalog

Course No.	Description	Cr.
<b>First Year Fall</b>		
<input type="checkbox"/> BIOL 110	Evolution, Ecol, & Plant Biol.	4
<input type="checkbox"/> CHEM 121	Chemistry Principles I	4
<input type="checkbox"/> WRIT 102	Research Writing	3
<input type="checkbox"/> HIST xxx	History Elective 100-200 level	3
<input type="checkbox"/> PSYC 101	Intro Psychology (Soc Sci I)	3
<input type="checkbox"/> BIOL 131	Biology Freshman Seminar	0
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0
<b>Total Credits</b>		<b>17</b>

<b>Second Year Fall</b>		
<input type="checkbox"/> BIOL 218	Marine Biology	4
<input type="checkbox"/> CHEM 221	Organic Chemistry I	4
<input type="checkbox"/> LANG xxx	Foreign Lang. (102 or higher)	3
<input type="checkbox"/> PHIL 205	Discovering Philosophy	3
<input type="checkbox"/> ECON/PLSC/PSYC/SOC	Social Science III	3
<b>Total Credits</b>		<b>17</b>

<b>Third Year Fall</b>		
<input type="checkbox"/> BIOL 302	General Microbiology	4
<input type="checkbox"/> PHYS 104	Intro to Physics I	4
<input type="checkbox"/> or 121	Gen. Physics I	
<input type="checkbox"/> FNAR xxx	Fine Arts Elective	3
<input type="checkbox"/> SOC SCI	Social Science Elective	3
<input type="checkbox"/> BIOL 331	Biology Junior Seminar	0
<input type="checkbox"/> EXAM 301	Writing Competency	0
<input type="checkbox"/>	Free Elective	3
<b>Total Credits</b>		<b>17</b>

<b>Fourth Year Fall</b>		
<input type="checkbox"/> BIOL xxx	Biology Course Option II	4
<input type="checkbox"/> BIOL xxx	Marine Biology Elective	1-4
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/> CORE 407	Keystone Seminar	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	1
<b>Total Credits</b>		<b>15-18</b>

Total Required Credits: 128

Course No.	Description	Cr.
<b>First Year Spring</b>		
<input type="checkbox"/> BIOL 111	Molecules, Cells, & Anim. Phys.	4
<input type="checkbox"/> CHEM 122	Chemistry Principles II	4
<input type="checkbox"/> MATH 112	Calculus	3
<input type="checkbox"/> or MATH 121	Calculus/Geom I	
<input type="checkbox"/> CORE 113	Gen Ed 1 <sup>st</sup> Year Seminar	3
<input type="checkbox"/> RLST 105	Franciscan Goals for Today	3
<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
<b>Total Credits</b>		<b>17</b>

<b>Second Year Spring</b>		
<input type="checkbox"/> BIOL xxx	Biology Course Option I	4
<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
<input type="checkbox"/> BIOL 315	Biostatistics	4
<input type="checkbox"/> LIT 104, 201, 202, 204, 207, 270	Literature	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
<b>Total Credits</b>		<b>18</b>

<b>Third Year Spring</b>		
<input type="checkbox"/> BIOL 301	Genetics (Diversity req)	4
<input type="checkbox"/> BIOL xxx	Marine Biology Elective	1-4
<input type="checkbox"/> PHYS 105	Intro to Physics II	4
<input type="checkbox"/> or 122	Gen. Physics II	
<input type="checkbox"/> PHIL /RLST	300+ Phil/RLST Elective	3
<input type="checkbox"/>	Free Elective	3
<b>Total Credits</b>		<b>15-18</b>

<b>Fourth Year Spring</b>		
<input type="checkbox"/> BIOL 402	Evolution	3
<input type="checkbox"/> BIOL xxx	Marine Biology Elective	3-4
<input type="checkbox"/> BIOL 431	Biology Senior Seminar	1
<input type="checkbox"/> EXAM 401	Dept. Comp. Exam	0
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
<b>Total Credits</b>		<b>13-14</b>

Updated: 5/2020

### Biology Course Options (two of the following):

- BIOL 203 – Ecology (S)
- BIOL 204 – Invertebrate Zoology (F)
- BIOL 211 – Comparative Vertebrate Anatomy (S)
- BIOL 320 – Vertebrate Zoology (S)
- BIOL 401 – Cell & Molecular Biology (S)

### Marine Biology Electives:

8 credits of the following:

- BIOL 150 Aquarium Maintenance (AN)
- BIOL 312/MS 471 – Research Diver Techniques
- BIOL 322 – Field Biology
- BIOL 398 – Biology Internship
- BIOL 399 – Biology Internship

Summer courses from the Marine Consortium:

- MS-110 – Introduction to Oceanography
- MS-211 – Field Methods in Oceanography
- MS-221 – Marine Invertebrates
- MS-241 – Marine Biology
- MS-260 – Marine Ecology
- MS-300 – Behavior of Marine Organisms
- MS-331 – Chemical Oceanography
- MS-343 – Marine Ichthyology
- MS-345 – Marine Ornithology
- MS-451 – Coastal Environment Oceanography
- MS-464 – Biological Oceanography
- MS-471 – Research Diver Techniques
- MS-490 – Aquaculture
- MS-491 – Coral Reef Ecology
- MS-500 – Problems in Marine Science

### Suggestions:

- Consider undergraduate research and internships.
- If pursuing graduate school, prepare for graduate school entrance exams during summer after junior year.
- SOC 305 – Environmental Sociology is recommended for GETM IV.

\*\*\*Sequence of courses may be altered with consent of advisor.