

Bachelor of Science, Biology – Marine Biology Concentration (BI-M): 2024-2025 Catalog

Course No.	Description	Cr.
First Year		
Fall		
<input type="checkbox"/> BIOL 110	Evolution, Ecol, & Plant Biol.	4
<input type="checkbox"/> CHEM 121	Chemistry Principles I	4
<input type="checkbox"/> BIOL/MS xxx	Marine Biology Elective(s)	1
<input type="checkbox"/> WRIT 102	Research Writing	3
<input type="checkbox"/> ---- xxx	Social Sciences	3
<input type="checkbox"/> BIOL 131	Biology First Year Seminar	0
<input type="checkbox"/> CORE 103	Fall Comm. Enrich. Series	0
Total Credits		15

Course No.	Description	Cr.
Second Year		
Fall		
<input type="checkbox"/> BIOL 218	Marine Biology	4
<input type="checkbox"/> CHEM 221	Organic Chemistry I	4
<input type="checkbox"/> ---- xxx	Language and Cultures	3
<input type="checkbox"/> PHIL 105/...	Philosophy	3
<input type="checkbox"/> CORE II	Civic Responsibility & Citizenship	3
Total Credits		17

Course No.	Description	Cr.
Third Year		
Fall		
<input type="checkbox"/> BIOL 203	Ecology	4
<input type="checkbox"/> BIOL 383	Biol. Research Methods Sem.	2
<input type="checkbox"/> PHYS 104	Intro to Physics I	4
or 121	Gen. Physics I	
<input type="checkbox"/> FNAR/ART	Fine Arts and Creative Expressio	3
<input type="checkbox"/> HIST xxx	History	3
Total Credits		16

Course No.	Description	Cr.
Fourth Year		
Fall		
<input type="checkbox"/> BIOL xxx	Biological Discipline A or B	4
<input type="checkbox"/> BIOL/MS xxx	Marine Biology Elective	2
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
Total Credits		15

128 Total Required Credits

Course No.	Description	Cr.
First Year		
Spring		
<input type="checkbox"/> BIOL 111	Mol., Cells, & Anim. Phys. #NS	4
<input type="checkbox"/> CHEM 122	Chemistry Principles II	4
<input type="checkbox"/> MATH 112	Calculus	3
or MATH 121	Calculus/Geom I	
<input type="checkbox"/> CORE I	Building a Foundation	3
<input type="checkbox"/> FTAE 105	Intro to Franciscan Theology	3
<input type="checkbox"/> CORE 104	Spring Comm. Enrich. Series	0
Total Credits		17

Course No.	Description	Cr.
Second Year		
Spring		
<input type="checkbox"/> BIOL xxx	Biological Discipline A or B	4
<input type="checkbox"/> CHEM 222	Organic Chemistry II	4
<input type="checkbox"/> BIOL 315	Biostatistics #QR	4
<input type="checkbox"/> LIT xxx	Literature	3
<input type="checkbox"/> BIOL 231	Biology Sophomore Seminar	0
Total Credits		15

Course No.	Description	Cr.
Third Year		
Spring		
<input type="checkbox"/> BIOL 301	Genetics	4
<input type="checkbox"/> MS 223/BIOL 223	Oceanography	3
<input type="checkbox"/> PHYS 105	Intro to Physics II	4
or 122	Gen. Physics II	
<input type="checkbox"/> FTAE/PHIL	Ethics	3
<input type="checkbox"/> BIOL/MS xxx	Marine Bio Elective	3
Total Credits		17

Course No.	Description	Cr.
Fourth Year		
Spring		
<input type="checkbox"/> BIOL 402	Evolution	3
<input type="checkbox"/> BIOL xxx	Biological Discipline III	4
<input type="checkbox"/> CORE III	Junior/Senior Capstone	3
<input type="checkbox"/> EXAM 401	Dept. Comp. Exam	0
<input type="checkbox"/>	Free Elective	3
<input type="checkbox"/>	Free Elective	3
Total Credits		16

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

Updated: 5/2024

Biological Discipline Electives

Three of the following, including at least one from each group:

Group A

- BIOL 204 – Invertebrate Zoology (F)
- BIOL 320 – Vertebrate Zoology (S)
- BIOL 211 – Comparative Vertebrate Anatomy (S)

Group B

- BIOL 345 - Environmental Animal Physiology (S)
- BIOL 401 – Cell & Molecular Biology (S)
- BIOL 302 - General Microbiology (F)

Marine Biology Electives:

6 credits of the following:

- MS 101 Open Water Diver (F,S)
- BIOL 150 Aquarium Maintenance (AN)
- BIOL 311/MS 491 Coral Reef Ecology (S)
- BIOL 312/MS 471 – Research Diver Techniques
- BIOL 322 – Field Biology (S, marine focus)
- BIOL 398 – Biology Internship
- BIOL 399 – Biology Internship
- BIOL 194/294/394/494 Biological Research
- BIOL 487 Independent Study (marine focus)

Summer courses from the Marine Consortium:

- MS-211 – Field Methods in Oceanography
- MS-221 – Marine Invertebrates
- 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-490 – Aquaculture
- 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.