Bachelor of Science, Biology – Marine Biology Concentration (BI-M): 2022-2023 Catalog

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

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

Second Year	Fall	
□ BIOL 218	Marine Biology	4
□ CHEM 221	Organic Chemistry I	4
□ LANG xxx	Foreign Lang. (102 or higher)	3
□ PHIL 205	Discovering Philosophy	3
□ ECON/PLSC/PSYC/SOC	Social Science III	3
Total Credits		**17**

Second Year	Spring	
□ BIOL xxx	Biology Course Option I	4
□ CHEM 222	Organic Chemistry II	4
□ BIOL 315	Biostatistics	4
□ LIT 104, 201, 202, 204, 207, 270	Literature	3
□ BIOL 231	Biology Sophomore Seminar	0
□	Diversity Elective	3
Total Credits		**18**

Third Year	Fall	
□ BIOL 302	General Microbiology	4
□ PHYS 104	Intro to Physics I	4
or 121	Gen. Physics I	
□ FNAR xxx	Fine Arts Elective	3
□ SOC SCI	Social Science Elective	3
□ BIOL 331	Biology Junior Seminar	0
□ EXAM 301	Writing Competency	0
□	Free Elective	3
Total Credits		**17**

Third Year	Spring	
□ BIOL 301	Genetics	4
□ BIOL xxx	Marine Biology Elective	1-4
□ PHYS 105	Intro to Physics II	4
or 122	Gen. Physics II	
□ PHIL /RLST	300+ Phil/RLST Elective	3
□	Free Elective	3
Total Credits		**15-18**

Fourth Year	Fall	
□ BIOL xxx	Biology Course Option II	4
□ BIOL xxx	Marine Biology Elective	1-4
□	Free Elective	3
□ CORE 407	Keystone Seminar	3
□	Free Elective	3
□	Free Elective	1
Total Credits		**15-18**

Fourth Year	Spring	
□ BIOL 402	Evolution	3
□ BIOL xxx	Marine Biology Elective	3-4
□ BIOL 431	Biology Senior Seminar	1
□ EXAM 401	Dept. Comp. Exam	0
□	Free Elective	3
□	Free Elective	3
Total Credits		**13-14**

Total Required Credits: 128

Updated: 5/2022

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.*