

Four-Year Degree Plan for Major in Marine Science/Biology

Note that this is a sample four-year plan. There are other course sequences that will allow a student to graduate within four years as long as prerequisite courses are taken in the proper sequence. A student must earn a minimum of 124 credit hours to qualify for the Bachelor of Science degree in Marine Science/Biology.

Degree Requirements

First (Freshman) Year - Fall Semester

BIO 198	General Biology I	3
BIO 198L	General Biology I Laboratory	1
CHE 152	General Chemistry I	3
CHE 153L	General Chemistry I Laboratory	1
AWR 101	Writing and Inquiry	4
BAC 101	First-Year Seminar I	1
	or	
HON 101	Pathways to Honors 1	1
MAT 170	Precalculus	4

Subtotal: 17

First (Freshman) Year - Spring Semester

BIO 199	General Biology II	3
BIO 199L	General Biology II Laboratory	1
CHE 154	General Chemistry II	3
CHE 155L	General Chemistry II Laboratory	1
MAT 260	Calculus I	4
	Humanities / Fine Arts or Social Science (Bacc. Exp.)	4
BAC 102	BAC 102 / Pathways to Honors 2	1

Subtotal: 17

Second (Sophomore) Year - Fall Semester

BIO 200	General Genetics	4
	or	
BIO 201	Molecular Genetics	4
CHE 232	Organic Chemistry I	3
CHE 233L	Organic Chemistry I Laboratory	1
MAR 200	Introduction to Marine Science	3
AWR 201	Writing and Research	4

Subtotal: 15

Second (Sophomore) Year - Spring Semester

CHE 234	Organic Chemistry II	3
CHE 235L	Organic Chemistry II Laboratory	1
MAR 222	Marine Ecology	4
	Humanities/Fine Arts or Social Science (Bacc. Exp.)	4
	Humanities/Fine Arts or Social Science (Bacc. Exp.)	4

Subtotal: 16

Third (Junior) Year - Fall Semester

PHY 200	General Physics I	4
	or	
PHY 205	General Physics with Calculus I	4
MAR 201	Origins & Evolution of Marine Environment (laboratory included)	4
	or	
	Org. vert or invert biology course (Category II)	4
	General Elective	4
	Humanities/Fine Arts or Social Science (Bacc. Exp.)	4

Subtotal: 16

Third (Junior) Year - Spring Semester

PHY 201	General Physics II	4
	or	
PHY 206	General Physics with Calculus II	4
	Org. vert or invert biology course (Category II)	4
	Org. vert or invert biology course (Category II)	4
	or	
MAR 301	Physical Oceanography	4
	or	
CHE 180	Environmental Chemistry	3
	Humanities/Fine Arts or Social Science (Bacc. Exp.)	4

Subtotal: 15-16

Fourth (Senior) Year - Fall Semester

MAR 327	Marine Botany	4
BIO	Biology elective	4
	Humanities/Fine Arts or Social Science (Bacc. Exp.)	4
	General Elective	4

Subtotal: 16

Fourth (Senior) Year - Spring Semester

BIO 410	Senior Seminar	1
BIO 411	Biology Outcomes Capstone	
BIO	Biology elective	4
	Cellular biology/physiological course (Category I)	3-4
	General Elective	4

Subtotal: 12-13

Collateral and/or prerequisite courses required for the double major in marine science–biology:

CHE 232	Organic Chemistry I	3
CHE 233L	Organic Chemistry I Laboratory	1
CHE 234	Organic Chemistry II	3
CHE 235L	Organic Chemistry II Laboratory	1
PHY 200	General Physics I	4
PHY 201	General Physics II	4

Subtotal: 16