



**HALMOS COLLEGE OF NATURAL SCIENCES AND OCEANOGRAPHY**  
**SAMPLE FOUR YEAR CURRICULUM | 2016 CATALOG**  
**Bachelor of Science - Marine Biology**



Freshman Year				
Fall		Winter		
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>	
UNIV 1000 - First Year Seminar	3			
Open Written Communication	3	Open Written Communication		3
Open Math	3	Open Math		3
BIOL 1500 Biology I/Lab	4	BIOL 1510 Biology II/Lab		4
CHEM 1300 General Chemistry I/Lab	4	CHEM 1310 General Chemistry II/Lab		4
MBIO 1050 Introductory Marine Biology Seminar	1	Open Elective		2
<b>Total Credits</b>	<b>18</b>	<b>Total Credits</b>		<b>16</b>

Sophomore Year				
Fall		Winter		
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>	
Open Social & Behavioral Sciences	3	Open Social & Behavioral Sciences		3
CHEM 2400 Organic Chemistry I/Lab	4	CHEM 2410 Organic Chemistry II/Lab		4
MATH 2100 Calculus I	4	MATH 2020 Applied Statistics		3
MBIO 2410 Marine Biology and Lab	4	MBIO 2500 Oceanography/Lab		4
<b>Total Credits</b>	<b>15</b>	<b>Total Credits</b>		<b>14</b>

Junior Year				
Fall		Winter		
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>	
Open Arts & Humanities	3	Open Arts & Humanities		3
PHYS 2350 General Physics I/Lab	4	PHYS 2360 General Physics II/Lab		4
BIOL 3300 Invertebrate Zoology/Lab	4	BIOL 3200 General Ecology/Lab		4
Group I Science foundation elective	3	Group I Science foundation elective		4
<b>Total Credits</b>	<b>14</b>	<b>Total Credits</b>		<b>15</b>

Senior Year				
Fall		Winter		
<u>Course</u>	<u>Credits</u>	<u>Course</u>	<u>Credits</u>	
Group I Science foundation elective	3	BIOL 3600 Genetics/Lab		4
Group I Science foundation elective	4	Group II Lab or field-based elective		4
Group II Lab or field-based elective	4	Open Elective		3
Open Elective	3	Open Elective		3
<b>Total Credits</b>	<b>14</b>	<b>Total Credits</b>		<b>14</b>

**REDITS: 120**

*NOTE: This sample plan is based on the student starting at least at the level of MATH 1200 Precalculus and COMP 1500 College Writing. The plan will be adjusted for students who begin at a lower level of MATH and/or a lower level of COMP.*

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**HALMOS COLLEGE OF NATURAL SCIENCES AND OCEANOGRAPHY**  
**DEGREE CURRICULUM SHEET | 2016-2017 CATALOG**  
**Bachelor of Science - Marine Biology**



FIRST YEAR SEMINAR		
Course	Credits	Frequency
UNIV 1000: First Year Seminar	3	
<b>Total First Year Seminar Credits</b>	<b>3</b>	

GENERAL EDUCATION REQUIREMENTS		
Area/Course	Credits	Frequency
<b>Written Composition</b>		
<i>6 credits at or above COMP 1500</i>		
Open Written Communication	3	
Open Written Communication	3	
<b>Mathematics</b>		
<i>6 credits at or above MATH 1040</i>		
Open Math	3	
Open Math	3	
<b>Arts &amp; Humanities</b>		
<i>6 credits in HIST, ARTS, PHIL, HUMN, LITR, THEA, FILM, MUSC, DANC, WRIT, foreign language</i>		
Open Arts & Humanities	3	
Open Arts & Humanities	3	
<b>Social &amp; Behavioral Sciences</b>		
<i>6 credits in PSYC, SOCL, ANTH, ECN, COMM, GEOG, GEST, INST, POLS</i>		
Open Social & Behavioral Sciences	3	
Open Social & Behavioral Sciences	3	
<b>Science</b>		
<i>6 credits in BIOL, MBIO, CHEM, SCIE, ENVS, PHYS satisfied by Major</i>		
	3	
<i>satisfied by Major</i>	3	
<b>Total General Education Credits</b>	<b>30</b>	

MAJOR		
Course	Credits	Frequency
BIOL 1500 Biology I/Lab	4	FW
BIOL 1510 Biology II/Lab	4	FW
BIOL 3200 General Ecology/Lab	4	W
BIOL 3300 Invertebrate Zoology/Lab	4	F
BIOL 3600 Genetics/Lab	4	FW
CHEM 1300 General Chemistry I/Lab	4	FW
CHEM 1310 General Chemistry II/Lab	4	FW
CHEM 2400 Organic Chemistry I/Lab	4	FW
CHEM 2410 Organic Chemistry II/Lab	4	FW
MATH 2020 Applied Statistics	3	FW
MATH 2100 Calculus I	4	FW
MBIO 1050 Introductory Marine Biology Seminar	1	F
MBIO 2410 Marine Biology and Lab	4	F
MBIO 2500 Oceanography/Lab	4	W
PHYS 2350 General Physics I/Lab	4	FW

MAJOR		
Course	Credits	Frequency
PHYS 2360 General Physics II/Lab	4	FW
<b>Total Major Credits</b>	<b>60</b>	
<b>REDITS: 120</b>		

MAJOR ELECTIVES		
Course	Credits	Frequency
<b>Group I Science foundation electives</b> <i>Select 13 credits from the following:</i>		
BIOL 3311 Vetebrate Zoology/Lab	4	WO
BIOL 3800 Evolution	3	F
CHEM 3650 Biochemistry/Lab	4	FW
ENVS 2100 Environmental Science Laboratory	3	W
ENVS 3000 Environmental Geology/Lab	4	W
MATH 2200 Calculus II	4	FW
MBIO 3500 Food Web Dynamics	3	WO
MBIO 3600 Plankton Ecology	3	WE
MBIO 3700 Biology of Fishes/Lab	4	FE
MBIO 3750 Coral Reefs and Coral Communities	3	FE
MBIO 3910 Sharks and Their Relatives	3	FO
MBIO 4900 Special Topics in Marine Biology	3	W,F,S
SCIE 3210 History of Science	3	FO
SCIE 4490 Research Methods	3	WE
<b>Group II Lab or field-based electives</b> <i>Select 6 credits from the following:</i>		
ENVS 1500 Natural History of South Florida	4	F
ENVS 3170 Everglades Ecology and Conservation	3	F
MBIO 3450 Survey of Marine Mammals	3	WO
ENVS 2000 Biodiversity of Alaskan Ecosystems	3	FO
ENVS 2001 Biodiversity of Alaskan Ecosystems Field Trip	1	SE
MBIO 3800 Island Biogeography	3	WE
MBIO 3801 Island Biogeography Field Course	1	SE
MBIO 4260 Ecology of the Galapagos Islands	3	WO
MBIO 4261 Ecology of the Galapagos Islands Field Trip	1	SO
MBIO 4990 Independent Study in Marine Biology	1-3	W,F,S
	<b>19</b>	

OPEN ELECTIVES	
take 4 elective courses	8
<b>Total Open Electives Credits</b>	<b>8</b>

*Frequency Key: F-Every Fall; W-Every Winter; FO - Odd Year Fall; FE - Even Year Fall; WO - Odd Year Winter; WE - Even Year Winter*

**TOTAL: 120 credits**