

MARINE BIOLOGY - BS

Program Requirements

First Year

		Semester Credit Hours
Fall		
CHEM 119	Fundamentals of Chemistry I	4
ENGL 104	Composition and Rhetoric	3
MATH 147	Calculus I for Biological Sciences	4
or MATH 151	or Engineering Mathematics I	
MARB 101	Succeeding in Science ¹	3
Semester Credit Hours		14

Spring

BIOL 111	Introductory Biology I ^{1,2}	4
CHEM 120	Fundamentals of Chemistry II	4
MARS 102	Earth and Ocean Science ¹	4
Select one of the following:		4
MATH 148	Calculus II for Biological Sciences	
MATH 150	Functions, Trigonometry and Linear Systems	
MATH 152	Engineering Mathematics II	
Semester Credit Hours		16

Second Year

Fall		
CHEM 227	Organic Chemistry I	3
CHEM 237	Organic Chemistry Laboratory	1
MARB 215	Marine Zoology ¹	4
PHYS 201	College Physics	4
POLS 206	American National Government	3
Semester Credit Hours		15

Spring

CHEM 228	Organic Chemistry II	3
CHEM 238	Organic Chemistry Laboratory	1
MARB 315	Natural History of Vertebrates ¹	4
PHYS 202	College Physics	4
POLS 207	State and Local Government	3
Semester Credit Hours		15

Third Year

Fall		
MARB 301	Genetics ¹	4
MARB 303	Biostatistics ¹	4
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communications)		3
Marine biology elective ^{1,3}		4
Semester Credit Hours		15

Spring

MARB 310	Introduction to Cell Biology ¹	4
MARB 435	Marine Invertebrate Zoology ^{1,4}	4

Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences)	3
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Marine biology elective ^{1,3}	4
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Semester Credit Hours 15

Fourth Year

Fall		
MARB 425	Marine Ecology ¹	4
MARB 430	Coastal Plant Ecology ¹	4
American History (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Marine biology elective ^{1,3}		3
Semester Credit Hours		14

Spring

MARB 420	Comparative Animal Physiology ¹	4
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)		3
Marine biology elective ^{1,3}		3
Semester Credit Hours		16

Total Semester Credit Hours 120

¹ Indicates required courses in the Marine Biology major. These courses will be used to compute the major GPR.

² A grade of C or better is required before advancing to upper level courses.

³ 14 credit hours of marine biology electives selected from the following: BIOL 351; FSCI 360, MARB 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/marb/>); MARS 305, MARS 325. Students can only select 2 mammals courses (MARB 400, MARB 401, MARB 403, or MARB 407).

⁴ Designated writing intensive course.

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 3-hour University Core Curriculum requirement for International and Cultural Diversity may be met with courses used to satisfy other degree requirements. The 3-hour University Core Curriculum requirement for Cultural Discourse may be met with courses used to satisfy other degree requirements. Up to 4 hours of MARB 491 and/or MARB 484 may be used as marine biology elective courses in your curriculum. Please consult with your academic advisor.