

MARINE BIOLOGY - BS

Program Requirements

First Year

Fall		Semester Credit Hours
CHEM 119	Fundamentals of Chemistry I	4
ENGL 104	Composition and Rhetoric	3
MATH 147 or MATH 151	Calculus I for Biological Sciences or Engineering Mathematics I	4
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		Semester Credit Hours
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		Semester Credit Hours
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		Semester Credit Hours
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.