

## **Bachelor of Science (BS) Marine Biology**

	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	ENGL 1301	Rhetoric and Composition I	с	()1()	Satisfactory scores on English portion of ACT test and TSI examination or ENGL0301.	
		4	BIOL 1406	General Biology I	С			Satisfies Major-Specific Requirement.
	FALL	3	CHEM 1311	General Chemistry I	с	030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."	
YEAR		1	CHEM 1111	General Chemistry I Lab	С	090	Credit/registration in CHEM 1301.	
Ϋ́E		3	X3XX-X3XX	Creative Arts		050		
RST			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
Ξ		14 Semester Total Hours						
		3		Rhetoric And Composition II	С		A grade of 'C' or better in ENGL 1301 or ENGL 1387.	
		4		General Biology II	С		BIOL 1406 or BIOL 1487.	Satisfies Major-Specific Requirement.
	٦	3		General Chemistry II	С	030	CHEM 1311.	
	SPRING	1	CHEM 1112	General Chemistry II Lab	С	090	Credit/registration in CHEM 1312.	
	S	3	MATH 1343	Introduction to Biostatistics	С	020	College Ready TSI status in Mathematics.	
			Semester Tota		Min			
Н	!	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	1	H 3	Course # CHEM 2323	Course Title Organic Chemistry I	Min. Grade	GEC		Additional Notes
	1	3 1	Course # CHEM 2323 CHEM 2123	Course Title Organic Chemistry I Organic Chemistry I Lab	Min. Grade	GEC	Credit/registration in CHEM 2323.	
	!	3 1 3	Course # CHEM 2323 CHEM 2123 BIOL 2310	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics	Min. Grade			Additional Notes  Satisfies Major-Specific Requirement.
	FALL	H 3 1 3 3	Course # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I	Min. Grade	GEC 060	Credit/registration in CHEM 2323.	
ıR	FALL	3 1 3	Course # CHEM 2323 CHEM 2123 BIOL 2310	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics	Min. Grade		Credit/registration in CHEM 2323.	
YEAR	FALL	H 3 1 3 3 3 3	COURSE # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301 PHIL 1366	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I Philosophy and History of Science and Technology	Min. Grade	060	Credit/registration in CHEM 2323.	
ND YEAR	FALL	H 3 1 3 3 3 1	COURSE # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301 PHIL 1366 Semester Total	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I Philosophy and History of Science and Technology	Min. Grade	060	Credit/registration in CHEM 2323.	
COND YEAR	FALL	H 3 1 3 3 3 3 3 3	COURSE # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301 PHIL 1366 Semester Tota CHEM 2325	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I Philosophy and History of Science and Technology I Hours Organic Chemistry II	Min. Grade	060	Credit/registration in CHEM 2323. BIOL 1407 (or BIOL 1488) .	
SECOND YEAR	FALL	H 3 1 3 3 3 1	COURSE # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301 PHIL 1366 Semester Tota CHEM 2325	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I Philosophy and History of Science and Technology	Min. Grade	060 040	Credit/registration in CHEM 2323. BIOL 1407 (or BIOL 1488) .  CHEM 2123.	
SECOND YEAR	ING	H 3 1 3 3 3 3 3 3	Course # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301 PHIL 1366 Semester Tota CHEM 2325 CHEM 2125	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I Philosophy and History of Science and Technology I Hours Organic Chemistry II	Min. Grade	060 040	Credit/registration in CHEM 2323. BIOL 1407 (or BIOL 1488) .	
SECOND YEAR	SPRING FALL -	H 3 1 3 3 3 1 13	COURSE # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301 PHIL 1366  Semester Tota CHEM 2325 CHEM 2125 BIOL 3413 HIST 1302	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I Philosophy and History of Science and Technole I Hours Organic Chemistry II Organic Chemistry II Lab Genetics U.S. History II	Min. Grade	060 040	Credit/registration in CHEM 2323. BIOL 1407 (or BIOL 1488) .  CHEM 2123. BIOL 1406 (or BIOL 1487) , BIOL 1407 (or BIOL 1487), CHEM 1311,	Satisfies Major-Specific Requirement.
SECOND YEAR	SPRING FALL -	H 3 1 3 3 3 1 1 4	COURSE # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301 PHIL 1366  Semester Tota CHEM 2325 CHEM 2125 BIOL 3413 HIST 1302	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I Philosophy and History of Science and Technole II Hours Organic Chemistry II Organic Chemistry II Lab Genetics	Min. Grade	060	Credit/registration in CHEM 2323. BIOL 1407 (or BIOL 1488) .  CHEM 2123. BIOL 1406 (or BIOL 1487) , BIOL 1407 (or BIOL 1487), CHEM 1311,	Satisfies Major-Specific Requirement.
SECOND YEAR	SPRING FALL -	H 3 1 3 3 3 1 4 3	COURSE # CHEM 2323 CHEM 2123 BIOL 2310 HIST 1301 PHIL 1366  Semester Tota CHEM 2325 CHEM 2125 BIOL 3413 HIST 1302	Course Title Organic Chemistry I Organic Chemistry I Lab Marine Processes and Ecosystem Dynamics U.S. History I Philosophy and History of Science and Technole I Hours Organic Chemistry II Organic Chemistry II Lab Genetics U.S. History II	Min. Grade	060 040 060	Credit/registration in CHEM 2323. BIOL 1407 (or BIOL 1488) .  CHEM 2123. BIOL 1406 (or BIOL 1487) , BIOL 1407 (or BIOL 1487), CHEM 1311,	Satisfies Major-Specific Requirement.

## Symbols Key

Critical ('!'): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative language proficiency in a language other than English at the S - Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; Language Proficiency Requirement: Student is required to demonstrate Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and undergraduate level equivalent to a minimum of six credits. Behavioral Sciences; 090 - Computer Application; 090 - Interdisciplinary ;090 -Science Labs; 090 - Wellness.

		!	H Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		4	4 BIOL 3409	Ecology			9 hours of Biology, including BIOL 1407 (or BIOL 1488).	Satisfies Major-Specific Requirement.
			4 PHYS 1401	General Physics I		090	MATH 1414 or MATH 1314.	One hour Integrative & Experiential Learning
		1	3 X3XX-X3XX	Social and Behavioral Sciences		080		
	FALL	:	3 POLS 2301	U.S. & Texas Government & Politics I		070		
		:	3 33XX-43XX	Major Advanced Elective				See Degree Plan for course options.
2	R R							
	YEAR	1	17 Semester To	tal Hours				
	THIRD	3	3 BIOL 3301	Biological Evolution			BIOL 1406 (or BIOL 1487) and BIOL 1407 (or BIOL 1488), or permission of instructor.	Satisfies Major-Specific Requirement.
			4 PHYS 1402	General Physics II			PHYS 1401.	
	و		3 BIOL 3320	Marine Biogeochemistry			BIOL 2310, CHEM 1311 and CHEM 1111.	Satisfies Major-Specific Requirement.
	SPRII		4 ENVR 3405	Oceanography			GEOL 1403 and either GEOL 1404 or BIOL 1406 (or BIOL 1487); all with a grade of 'C' or better.	
		:	3 POLS 2302	U.S. & Texas Government & Politics II		070		
		1	L7 Semester To	tal Hours				
	_	_			Min			
		! [		Course Title	Min. Grade		Prerequisite	Additional Notes
	Ī	!			Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125	Additional Notes Satisfies Major-Specific Requirement. Alternative BIOL 3415.
	Ī	· ·	H Course #	Course Title	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125	
	ı,	! !	H Course # 4 BIOL 3412	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125	Satisfies Major-Specific Requirement. Alternative BIOL 3415.
	FALL	!	H Course # 4 BIOL 3412 4 BIOL 3430	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.
		! !	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology  Major Advanced Elective  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.
	YEAR	! !	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX 3 33XX-43XX 2 32XX-42XX	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.
	RTH YEAR	1	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX 3 33XX-43XX 2 32XX-42XX	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125 BIOL 3409.	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.  See Degree Plan for course options.
	YEAR	1	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX 3 33XX-43XX 2 32XX-42XX L6 Semester To 4 BIOL 4401	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective  tal Hours  Marine Biology Seminar	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.  See Degree Plan for course options.  Satisfies Major-Specific Requirement.
	RTH YEAR	1	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX 3 33XX-43XX 2 32XX-42XX L6 Semester To 4 BIOL 4401 3 33XX-43XX	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective  tal Hours  Marine Biology Seminar  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125 BIOL 3409.	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.  See Degree Plan for course options.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.
	FOURTH YEAR	1	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX 3 33XX-42XX 2 32XX-42XX L6 Semester To 4 BIOL 4401 3 33XX-43XX 4 34XX-44XX	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology Major Advanced Elective Major Advanced Elective  Major Advanced Elective  tal Hours  Marine Biology Seminar  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125 BIOL 3409.	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.  See Degree Plan for course options.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.
	RTH YEAR	1	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX 3 33XX-43XX 2 32XX-42XX L6 Semester To 4 BIOL 4401 3 33XX-43XX	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology Major Advanced Elective Major Advanced Elective  Major Advanced Elective  tal Hours  Marine Biology Seminar  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125 BIOL 3409.	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.  See Degree Plan for course options.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.
	FOURTH YEAR	1	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX 3 33XX-42XX 2 32XX-42XX L6 Semester To 4 BIOL 4401 3 33XX-43XX 4 34XX-44XX	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology Major Advanced Elective Major Advanced Elective  Major Advanced Elective  tal Hours  Marine Biology Seminar  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125 BIOL 3409.	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.  See Degree Plan for course options.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.
	FOURTH YEAR	1	H Course # 4 BIOL 3412 4 BIOL 3430 3 33XX-43XX 3 33XX-42XX 2 32XX-42XX L6 Semester To 4 BIOL 4401 3 33XX-43XX 4 34XX-44XX	Course Title  Cell Biology  Field Methods and Analysis in Marine Biology  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective  tal Hours  Marine Biology Seminar  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective  Major Advanced Elective	Min. Grade		BIOL 1406 (or BIOL 1487), BIOL 1407 (or BIOL 1488), CHEM 2323 and 2123, and CHEM 2325, 2125 BIOL 3409.	Satisfies Major-Specific Requirement. Alternative BIOL 3415.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.  See Degree Plan for course options.  Satisfies Major-Specific Requirement.  See Degree Plan for course options.  See Degree Plan for course options.

**Graduation Requirements** 

120 TOTAL HOURS (48) TOTAL ADVANCED HOURS Approved: Frank Quing & Revised: Wednesday, October 14, 2015