

MARINE BIOLOGY DEGREE PLAN effective Fall 2007

		Credit Hours
01. Written and Oral Communication (8 hrs minimum; at least 4 courses)		
01. ENG 101	Composition One	3
02. ENG 102	Composition Two	3
03. Senior Capstone Experience	See Major Requirements (over)	
04. Upper level Writing Intensive (WI) course	See Major Requirements (over)	
05. Speech Communication (Select 3 hrs)	[BSC Department Requirement]	
SCM 111	Oral Communication	3
SCM 305	Interpersonal Communication	3
SCM 320	Business and Professional Speaking	3
SCM 330	Small Group Communication	3
		3
02. Basic Science and Mathematics (Select 3 hrs)		
01. Laboratory Sciences	See Major Requirements (over)	
02. Mathematics:	Calculus Competency**	
MAT 314 or	Calculus for Arts and Science	3
MAT 167	Calculus I with Analytical Geometry	3
<p>** MAT 167: Prerequisites ≥ 26 in Math on ACT or $\geq C$ in MAT 128 or $\geq C$ in MAT 103. MAT 314 [Calculus for the Arts and Sciences]: Prerequisites ≥ 24 in Math on ACT or $\geq C$ in MAT 128 or $\geq C$ in MAT 103. NOTE: Enrollment in MAT 103 or MAT 128 requires ≥ 24 in Math on ACT or $\geq C$ in MAT 101. Enrollment in MAT 101 requires ≥ 20 in Math on ACT or $\geq C$ in MAT 099 [Intermediate Algebra].</p>		
03. Computing Competency	See Other Required Courses (over)	
03. Global History and Culture (12 hrs)		
01. <i>Social Sciences</i> (Select 3 hrs)		
ANT101	The Human Experience	3
GHY 101	World Regional Geography	3
SOC 101	Understanding Society	3
	<i>Humanities</i> (9 Hrs)	
02. ENG 203	World Literature	3
03. HIS 101 or	World Civilizations: Beginnings to 1500 C.E.	3
HIS 102	World Civilizations: 1500 to the Present	3
04. HIS 101 or HIS 102 or		3
PHI 151 or	Introduction to Philosophy	3
REL 131	Comparative Religion	3
04. Aesthetic Values (Select 3 hrs)		
ART 130	The Art Experience	3
DAN 130	Dance Appreciation	3
MUS 365	The Enjoyment of Music	3
THE 100	Theatrical Expressions	3
05. Decision Making and Responsibility (Select 3 hrs)		
ECO 101	Basic Economics	3
PHI 171	Ethics and Good Living	3
PSY 110	General Psychology	3
PS 101	American Government	3
COH 100	Concepts of Wellness	3
COH 101	Diversity and Social Justice	3

Core Total: 30 hrs

Minimum of 124 Hours in Program

Minimum of 64 hours required from a four-year college; 45 hours at 300 or 400 level; last 32 hours taken at USM.

06. Major/Emphasis Requirements (41 hrs)				Credit Hours		
01.	BSC 110/BSC 110L	Principles of Biological Science I		3/1		
02.	BSC 111/BSC 111L	Principles of Biological Science II		3/1		
03.	BSC 201/BSC 201L	General Zoology		3/1		
04.	BSC 370	Genetics		4		
05.	BSC 380/BSC 380L	General Microbiology		3/1		
06.	BSC 445/BSC 445L	Marine Biology (WI)		3/1		
07.	Physiology (Select 3 hours)					
	BSC 360	Cellular Physiology		3		
	BSC 450	Comparative Animal Physiology		3		
	BSC 451	Mammalian Physiology		3		
	BSC 452	Environmental Physiology		3		
	BSC 453	Invertebrate Physiology		3		
08.	SELECT 1 COURSE FROM GROUP I BELOW					
09.	SELECT 1 COURSE FROM GROUP II BELOW					
10.	SELECT ADDITIONAL HOURS SO GROUP I & GROUP II ELECTIVES TOTAL AT LEAST 13 HOURS; OF THESE 13 HOURS, AT LEAST 10 HOURS MUST BE TAKEN AT THE GULF COAST RESEARCH LAB. ***					
Group I:	BSC 407/BSC 407L	Biology of Vertebrates		3/1		
	BSC 408/BSC 408L	Invertebrate Zoology I		2/1		
	BSC 409/BSC 409L	Invertebrate Zoology II		2/1		
	BSC 414/BSC 414L	Ichthyology		2/1		
	BSC 415/BSC 415L	Biology of Fishes		2/2		
	BSC 421/BSC 421L***	Marine Invertebrate Zoology		3/3		
	BSC 424/BSC 424L***	Parasites of Marine Animals		3/3		
	BSC 425/BSC 425L***	Marine Phycology		2/2		
	BSC 427/BSC 427L	Introductory Phycology		2/1		
	BSC 430/BSC 430L	Aquatic and Marsh Plants		2/1		
	BSC 437/BSC 437L***	Coastal Vegetation		2/1		
	BSC 458/BSC 458L***	Marine Ichthyology		3/3		
	BSC 459/BSC 459L***	Marine Mammals		3/2		
	BSC 468/BSC 468L***	Comparative Histology of Marine Organisms		3/3		
	BSC 476	Molecular Biology		3		
	BSC 478L	Molecular Biology Laboratory		4		
	BSC 479/BSC 479L***	Applications of Biotechnology in Marine Biology		3/3		
	BSC 487/BSC 487L	Microbial Physiology		3/1		
Group II:	BSC 382	Microbial Ecology		3		
	BSC 416/BSC 416L	Introduction to Fishery Science		2/1		
	BSC 436/BSC 436L	Conservation Biology		3/1		
	BSC 438/BSC 438L***	Salt Marsh Plant Ecology		2/2		
	BSC 439/BSC 439L***	Marine Ecology		3/2		
	BSC 440/BSC 440L	Ecology		3/1		
	BSC 441/BSC 441L	Population and Community Ecology		2/1		
	BSC 446/BSC 446L	Aquaculture		2/1		
	BSC 447/BSC 447L***	Marine Aquaculture		3/3		
	BSC 448/BSC 448L***	Fauna and Faunistic Ecology of Tidal Marshes		2/3		
	BSC 449/BSC 449L***	Marine Fisheries Management		2/2		
	BSC 489/BSC 489L	Environmental Microbiology		3/1		
	BSC 490/BSC 490L***	Marine Microbiology		3/2		
10.	BSC 497	Senior Practicum [Senior Capstone Experience]		1		
07. Other Required Courses (28 hrs)						
01.	CHE 106/CHE 106L	General Chemistry I		3/1		
02.	CHE 107/CHE 107L	General Chemistry II		3/1		
03.	CHE 255/CHE 255L	Organic Chemistry		3/1		
04.	CHE 256/CHE 256L	Organic Chemistry		3/2		
05.	PHY 111/PHY 111L	General Physics I		3/1		
06.	PHY 112/PHY 112L	General Physics II		3/1		
07.	Computing Competency (Select 3 hrs)			Credit Hours		
	CSS 240	FORTRAN Programming	3	CSS 211	Statistical Methods I	3
	CSS 330	Introduction to Programming	3	PSY 360	Intro. to Statistics	3
	CSS 333	Problem Solving C, I	3			
08. Minor Area of Study (Optional)						
09. Electives (25 hours)						

Minimum of 124 Hours in Program

Minimum of 64 hours required from a four-year college; 45 hours at 300 or 400 level; last 32 hours taken at USM.