

MARINE BIOLOGY Degree Plan (MARBSCBS) 07/03

01. WRITTEN AND ORAL COMMUNICATION (12 HRS)

01	ENG 101	(Composition One)	3
02	ENG 102	(Composition Two)	3
03	Senior Capstone		3
04	Speech Communication (choose 1 course from):		3
	SCM 111	(Oral Communication)	
	SCM 305	(Interpersonal Communication)	
	SCM 320	(Business and Professional Speaking)	
	SCM 330	(Small Group Communication)	

02. BASIC SCIENCE AND MATHEMATICS (3 HRS)

01	MATHEMATICS	(Calculus Competency)*	
02	LABORATORY SCIENCES	(See Major requirements)	

03. GLOBAL HISTORY AND CULTURE (12 HRS)

	SOCIAL SCIENCE (choose 1 course from):		3
01	ANT 101	(The Human Experience: a Global Perspective on Human Diversity)	
	GHY 101	(World Geography: Dynamics of a Changing Earth)	
	SOC 101	(Understanding Society: Principles of Sociology)	
	HUMANITIES:		
02	ENG 203	(World Literature)	3
03	Choose 1 course from:		3
	HIS 101	(World Civilizations: Beginning to 1500 C.E.)	
	HIS 102	(World Civilizations: 1500 to the Present)	
04	Choose 1 course from:		3
	HIS 101	(World Civilizations: Beginning to 1500 C.E.)	
	HIS 102	(World Civilizations: 1500 to the Present)	
	PHI 151	(Introduction to Philosophy)	
	REL 131	(Comparative Religion)	

04. AESTHETIC VALUES (3 HRS)

	FINE ART APPRECIATION (choose 1 course from):		3
01	ART 130	(The Art Experience)	
	DAN 107	(The Power of Dance)	
	MUS 365	(The Enjoyment of Music)	
	THE 100	(Theatrical Expressions)	

05. DECISION MAKING AND RESPONSIBILITY (3 HRS)

	Choose one course from:		3
01	ECO 101	(Basic Economics)	
	PHI 171	(Ethics and Good Living)	
	PSY 110	(General Psychology)	
	PS 101	(American Government)	
	HHS 100	(Concepts of Wellness)	
	HHS 101	(Diversity and Social Justice)	

Core Total: 33 hrs

* Students may be advised to complete Algebra and Trigonometry as prerequisites to satisfying the Calculus competency requirement.

Minimum of 128 Hours in Program

A minimum of 64 hrs. required from a four-year college; 45 hrs. at 300- or 400-level; last 32 hrs. from USM.

06. Major/Emphasis Requirements (36 HRS)		Hours (lecture/lab)
01	BSC 110/BSC 110L (Principles of Biological Science I) (CC 1134)	3/1
02	BSC 111/BSC 111L (Principles of Biological Science II) (CC 1144)	3/1
03	BSC 201/BSC 201L (General Zoology) (CC 2414)	2/1
04	BSC 370 (Genetics)	4
05	BSC 380/BSC 380L (General Microbiology) (CC 2924)	3/1
06	PHYSIOLOGY (select 3 hrs from):	
	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
07	SELECT 1 COURSE FROM GROUP I BELOW.	
08	SELECT 1 COURSE FROM GROUP II BELOW.	
09	SELECT ADDITIONAL HOURS FROM GROUPS I AND II SO BSC ELECTIVES EQUAL AT LEAST 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 445/BSC 445L (Marine Biology)	3/1
	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)	1
07. OTHER REQUIRED COURSES (28 HRS)		
01	CHE 106/CHE 106L (General Chemistry I) (CC 1213, 1214, 1215; 1211)	3/1
02	CHE 107/CHE 107L (General Chemistry II) (CC 1223, 1224, 1225; 1221)	3/1
03	CHE 255/CHE 255L (Organic Chemistry) (CC 2423, 2424, 2425; 2421, 2422)	3/1
04	CHE 256/CHE 256L (Organic Chemistry) (CC 2433, 2434, 2435; 2431, 2432)	3/2
05	PHY 111/PHY 111L (General Physics) (CC 2414)	3/1
06	PHY 112/PHY 112L (General Physics) (CC 2424)	3/1
07	COMPUTING COMPETENCY (3 hours)	
	CSS 211 (Statistical Methods I)	3
	CSS 240 (FORTRAN Programming) (CC 2323)	3
	CSS 330 (Introduction to Programming)	3
	CSS 333 (Problem Solving Using C, I)	3
	PSY 360 (Introduction to Statistics for the Behavioral Sciences)	3
08. MINOR AREA OF STUDY (OPTIONAL)		
09. ELECTIVES (31 HRS)		
Minimum of 128 Hours in Program		

A minimum of 64 hrs. required from a four-year college; 45 hrs. at 300- or 400-level; last 32 hrs. from USM.