## Dept of Biology Undergraduate Program Curriculum Map BS in Marine Biology Jul-19

Definition of Terms			on p	rereq	uisite		Major courses										Elective Courses																					
I = introduce = the level of learning expected of a novice R = reinforce = the level of instruction and learning expected with students who have been introducced to concepts of skills previously; not the final goal state M = mastery = the intended state of learning the program aspires to achieve		BSC 2010/2011 Biology I and II	CHM 2045/2046 General Chemistry I and II	CHM 2211/2212 Organic Chemistry I and II	PHY 2053/2054Physics I and II	BOT 4404C Aquatic Botany	BSC 2844 Biology Skills	MCB4XXX Molecular Aquatic Microbial Ecology	OCE 3007 Concepts in Oceanography and Marine Biolog	PCB 3063 Genetics	PCB 3063L Genetics Lab	PCB 3043 Ecology	PCB 3043L Ecology Lab	PCB 4673 Principles of Evolution	PCB 4723 Comparative Animal Physiology	ZOO 4254C Marine Invertebrate Zoology	ZOO 4304C Marine Vertebrate Zoology	BCH 3033 Biochemistry I	BCH 3033L Biochemistry Lab	BSC 4303 Biogeography	MCB 3020 General Microbiology	MCB3020 General Microbiology Lab	OCB 4201 Biology of Coral Reefs	PCB 4048C Coastal marine Ecology		PCB 4253L Developmental Biology Lab DCB 4364 Marina Econbuciology	PCB 4364L Marine Ecophysiology Lab	PCB 4524 Molecular Ecology	PCB 4524 Molecular Biology	PCB 4524L Molecular Biology Lab	PCB 4723 Comparative Animal Physiology	PCB 4871 Sensory Biology	PCB 4922 Biology seminar	200 4454 Elasmobranch Biology	200 4457 Ichtyology	ZOO 4472 Avian Science	ZOO 4485 Marine Mammalogy	ZOO 4513 Animal Behavior
Content	Recognize appropriate classification, with respect to anatomical, physiological, and ecological characteristics of marine microbes, plants, invertebrates, and vertebrates.	1	ı	R	- Р	<b>R</b>	œ.	≥ R	O R	<b>a.</b> R	R.	<b>d</b> М			M	<b>Ž</b> R	<b>Ž</b> R	M	<b>m</b> R	<b>M</b>	≥ R					a a				M	M	M	۵.		<b>Ž</b> M			
Critical Thinking	Evaluate the physical, chemical and geological characteristics of the marine environment and how they impact marine biology function.	1	ı	R	1	R	I	R	R	R	R	M	М		М	R	R	М	R	M	R	R	М	М	ı M	M N	1 N	1	М	M	M	М		M	М	M	M	
Communication	Use biological and marine environmental terminology correctly in oral and written form	1				М	ı	R	R	R	R	М	М	М	М	М	М	М	R	М	R	R	М	М	M I	M N	1 1	1 M	М	M	M	М	М	M	М	M	M	М
Integrity/Values	Recognize ethical challenges in using animals for marine biology research and ethical challenges of in situ experiments with potential environmental consequences in the field.	1				R			R	R	R	М	М	М	М	R	R	М	R	М	R	R	м	М	M I	M N	1 1	1	М	M	M	М		M	М	M	M	M