



DEPARTMENT OF BIOLOGY

UNDERGRADUATE PROGRAM CURRICULUM MAP

BS BIOLOGY - GENERAL BIOLOGY SPECIALIZATION

SEP 2011

DEFINITIONS OF TERMS		Major Courses (continued from previous page)																																		
		General Biology Subcore (continued from previous page)																																		
I = Introduce = The level of learning expected of a novice		Choose 14 SH with advisor; The same course may not be used to fulfill both the specialization and subcore program										Maximum 2 SH Directed Independent Study																								
R = Reinforce = The level of instruction and learning expected with students who have been introduced to concepts or skills previously; not the final goal state																																				
M = Mastery = The intended goal state of learning our program aspires to achieve																																				
X = Not applicable																																				
Student Learning Outcomes		PCB4703 Human Physiology	PCB4723/L Comparative Animal Physiol I/Lab	PCB4922 Biology Seminar	ZOO3558 Coral Reefs	ZOO4254/L Marine Invertebrate Zoology/Lab	ZOO4304/L Marine Vertebrate Zoology/Lab	ZOO4454 Elasmobranch Biology	ZOO4457 Fish Physiology	ZOO4485 Marine Mammalogy	ZOO4513 Animal Behavior	ZOO4880C Fisheries Biology	BCH3905 Directed Independent Study	BCH4905 Directed Independent Study	BOT3905 Directed Independent Study	BOT4905 Directed Independent Study	BSC3905 Directed Independent Study	BSC4905 Directed Independent Study	MCB3905 Directed Independent Study	MCB4905 Directed Independent Study	PCB3905 Directed Independent Study	PCB4905 Directed Independent Study	ZOO3905 Directed Independent Study	ZOO4905 Directed Independent Study												
				R	M	I	I	R	M	I	I	I	R	I	R	M	R	M	R	M	R	M	R	M	R	M										
Content	Identify and use the concepts, principles, and theories that constitute the core subdisciplines of the biological sciences	R	M	I	I	R	M	I	I	I	R	I	R	M	R	M	R	M	R	M	R	M	R	M												
	Employ techniques central to analysis of biological materials	R	R	I	I	R	M	I	I	I	R	I	R	M	R	M	R	M	R	M	R	M	R	M												
	Describe discipline-related career paths for which recipients of the BS in Biology are qualified	R	M	I	I	M	X	I	I	I	M	X	R	M	R	M	R	M	R	M	R	M	R	M												
Critical Thinking	Apply scientific method to solve problems in the biological sciences	M	X	M	I	R	M	R	R	R	M	M	R	M	R	M	R	M	R	M	R	M	R	M												
	Select and conduct appropriate statistical analyses	M	R	M	I	X	I	R	R	R	R	M	R	M	R	M	R	M	R	M	R	M	R	M												
Communication	Employ biological terminology accurately	R	X	I	R	M	X	X	X	X	M	X	R	M	R	M	R	M	R	M	R	M	R	M												
	Use language in written form effectively and Professionally	R	R	I	R	R	X	X	X	X	R	I	R	M	R	M	R	M	R	M	R	M	R	M												
	Communicate biological information in oral form employing appropriate technology	R	X	I	R	R	X	X	X	X	R	X	R	M	R	M	R	M	R	M	R	M	R	M												
Integrity/ Values	Describe ethical challenges involved in conducting scientific research with humans and animals	R	X	M	I	R	X	I	I	I	M	I	R	M	R	M	R	M	R	M	R	M	R	M												
	Adhere to appropriate ethical practices in research and teaching	R	I	M	I	R	X	I	I	I	M	I	R	M	R	M	R	M	R	M	R	M	R	M												
Project Management	Design and execute a project that incorporates a reasonable time line to address a problem in the biological sciences	R	X	R	X	X	X	X	X	X	R	X	R	M	R	M	R	M	R	M	R	M	R	M												
	Draw and defend conclusions related to the results of the study	R	X	R	X	X	X	X	X	X	R	I	R	M	R	M	R	M	R	M	R	M	R	M												
	Collaborate effectively with others on team projects	R	M	R	X	X	X	X	X	X	R	X	R	M	R	M	R	M	R	M	R	M	R	M												