## BIOLOGY-CHEMISTRY, B.S. (BIOLOGY)

Code	Title	Units		
Lower-Division R		onnto		
BIO 2010	Cell Biology and Biochemistry (FE)	4		
and BIO 2010L	and Cell Biology and Biochemistry Laboratory (FE)			
BIO 2011	Ecological and Evolutionary Systems (FE)	4		
and BIO 2011L	and Ecological and Evolutionary Systems			
	Laboratory (FE)			
BIO 2012	Organismal Biology	4		
and BIO 2012L	and Organismal Biology Laboratory	_		
CHE 1052	General Chemistry I (FE)	5		
and CHE 1052L	and General Chemistry I Lab (FE)	4		
CHE 1053 and CHE 1053L	General Chemistry II and General Chemistry II Lab	4		
CHE 2013	Analytical Chemistry	3		
CHE 2094	Organic Chemistry I	4		
and CHE 2094	and Organic Chemistry I Lab	4		
CHE 2096	Organic Chemistry II	4		
and CHE 2096L	and Organic Chemistry II Lab	•		
MTH 1044	Calculus with Applications (FE)	4		
Choose one (1) s	equence from the following:	8		
Sequence 1:				
PHY 1044	General Physics I (FE)			
and	and General Physics I Lab (FE)			
PHY 1044L				
PHY 1054	General Physics II (FE)			
and	and General Physics II Lab (FE)			
PHY 1054L				
Sequence 2: PHY 2044				
and	University Physics I (FE) and University Physics I Lab (FE)			
PHY 2044L				
PHY 2054	University Physics II			
and	and University Physics II Lab			
PHY 2054L				
Upper-Division Requirements				
BIO 3045	Genetics	4		
and BIO 3045L	and Genetics Laboratory			
BIO 3080 and BIO 3080L	Molecular Biology and Molecular Biology Laboratory	4		
BIO 4097	Biology Seminar	1		
CHE 3025	Physical Chemistry I	4		
and CHE 3025L	and Physical Chemistry I Lab	4		
Choose one (1) course from the following:		4		
BIO 4050	Advanced Biochemistry			
	and Advanced Biochemistry Laboratory			
CHE 4050	Advanced Biochemistry			
and	and Advanced Biochemistry Lab			
CHE 4050L				
Choose one (1) course from the following: 2-3				
CHE 3026	Physical Chemistry II			
CHE 3051	Organic Structure Elucidation			

	CHE 3070	Instrumental Analysis	
	CHE 4053	Advanced Organic Chemistry	
	CHE 4066	Bioinorganic Chemistry	
	CHE 4068	Advanced Inorganic Chemistry	
С	hoose at least fiv	ve (5) units from the following: <sup>1</sup>	5
	BIO 3012	Applied Plant Biology	
	BIO 3015	Microbiology	
		and Microbiology Laboratory	
	BIO 3023 and BIO 3023L	Introduction to Oceanography and Introduction to Oceanography Laboratory	
	BIO 3033	Marine Biology	
	and BIO 3033L	and Marine Biology Laboratory	
	BIO 3040	Field Biology: Neotropical Ecology	
	BIO 3050 and BIO 3050L	Advanced Cell Biology and Advanced Cell Biology Laboratory	
	BIO 3052	Research Methodology	
	BIO 3063 and BIO 3063L	Conservation Ecology and Conservation Ecology Laboratory	
	BIO 3090 and BIO 3090L	Immunology and Immunology Laboratory	
	BIO 4000 and BIO 4000L	Developmental Biology and Developmental Biology Laboratory	
	BIO 4010 and BIO 4010L	Vertebrate Biology and Vertebrate Biology Laboratory	
	BIO 4023 and BIO 4023L	Advanced Human Physiology and Advanced Human Physiology Laboratory	
	BIO 4030 and BIO 4030L	Animal Behavior and Animal Behavior Laboratory	
	BIO 4070	Neuroscience	
	BIO 4073	Experimental Marine Ecology	
	and BIO 4073L	and Experimental Marine Ecology Laboratory	
Total Units			68-69

<sup>1</sup> Courses and their corresponding lab (if applicable) must be taken concurrently.