2021-2022 Four-Year Plan for the BS Math: Applied Mathematical Biology Degree

Freshman	Fall	•			Spring		
MATH 143	College Algebra	3		MATH 170	Calculus I	4	
BIOL 114	Organisms and Environments	4		MATH 144	Analytic Trigonometry	1	
ENGL 101	Writing and Rhetoric I	3		ENGL 102	Writing and Rhetoric II	3	
Elective	Oral Communication Course	2		CHEM 111	General Chemistry I	3	
Elective	American Diversity Course	3		CHEM	General Chemistry I Lab	1	
				111L			
				Elective	Humanistic and Artistic Ways of	3	
					Knowing Course		
	Total Credits	15			Total Credits	15	

Sophomore Fall			Spring			
MATH 175	Calculus II	4	STAT 251	STAT 251 or STAT 301	3	
			or 301			
BIOL 115	Cells and the Evolution of Life	3	MATH 330	Linear Algebra	3	
BIOL 115L	Biology 115 Lab	1	MATH 275	Calculus III	3	
Elective	Social and Behavioral Ways of	3	BIOL	Upper Division Biology Elective	3	
	Knowing Course		Elective			
Elective	International Course	3	Elective	Humanistic and Artistic Ways of	3	
				Knowing Course		
Elective	Free Elective, 1 credit course	1				
Total Credits		15		Total Credits	15	

Junior	Fall			Spring	
MATH 451	Probability Theory	3	MATH 437	Mathematical Biology	3
BIOL 310	Genetics	3	MATH 452	Mathematical Statistics	3
MATH 310	MATH 310 or MATH 453 or	3	BIOL	Upper Division Biology Elective	3
or 453 or	STAT 431		Elective		
STAT 431					
Elective	Free Elective	3	Elective	Social and Behavioral Ways of	3
				Knowing Course	
Elective	Free Elective	3	Elective	Free Elective	3
	Total Credits	15		Total Credits	15

Senior	Fall			Spring	
BIOL 456	Computer Skills for Biologists	3	BIOL	Upper Division Biology Elective	3
			Elective		
MATH 428	MATH 428 or MATH 430 or	3	MATH 428	MATH 428 or MATH 430 or	3
or 430 or	MATH 480		or 430 or	MATH 480	
480			480		
MATH 415	Cryptography	3	MATH 310	MATH 310 or MATH 453 or	3
			or 453 or	STAT 431	
			STAT 431		
BIOL	Upper Division Biology Elective	3	Elective	Free Elective	3
Elective					
Elective	Free Elective	3	Elective	Free Elective	3
Total Credits		15		Total Credits	15