



COLLEGE OF NATURAL SCIENCES & MATHEMATICS

Bachelor of Arts, Biochemical & Biophysical Sciences

Four-Year Academic Map

2023-2024

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total	
	ENGL 1301	First Year Writing I	3	ENGL 1302	First Year Writing II	3		
	CHEM 1311	Fundamentals of Chemistry I	3	CHEM 1312	Fundamentals of Chemistry II	3		
	CHEM 1111	Fundamentals of Chemistry I Lab	1	CHEM 1112	Fundamentals of Chemistry II Lab	1		
	MATH 2413	Calculus I	4	MATH 2414	Calculus II	4		
	BIOL 1306	Introduction to Biological Science I	3	BIOL 1307	Introduction to Biological Science II	3		
	BIOL 1106	Intro to Biological Science I Lab	1	BIOL 1107	Intro to Biological Science II Lab	1		
Semester Hours			15	Semester Hours			15	30

YEAR 2	Semester 1			Semester 2			Total	
		Foreign Language (2000-level)	3		Foreign Language (2000-level)	3		
	CHEM 2323	Fundamentals of Organic Chemistry I	3	CHEM 2325	Fundamentals of Organic Chem. II	3		
	CHEM 3123	Funds of Organic Chem. I Lab	2	CHEM 2125	Funds of Organic Chem. II Lab	2		
	MATH 2415	Calculus III OR	3-4	BCBS 3304	General Biochemistry I	3		
	MATH 3338	Probability OR		BCBS 3201	Biochemistry I Laboratory	2		
	MATH 3339	Statistics for the Sciences		CORE	Creative Arts	3		
	BIOL 3301	Mendelian and Population Genetics	3					
Semester Hours			14-15	Semester Hours			16	30-31

YEAR 3	Semester 1			Semester 2			Total	
	PHYS 1301	Introductory General Physics I	3	PHYS 1102	General Physics Laboratory II	1		
	PHYS 1101	General Physics Laboratory I	1	PHYS 1302	Intro General Physics II	3		
	BCBS 3305	General Biochemistry II	3	GOVT 2305	US Govt: Congress, Prest, & Courts	3		
	GOVT 2306	US & Texas Constitutions & Politics	3	HIST CORE	The United States Since 1877	3		
	HIST CORE	The United States to 1877	3	Elective	Approved Advanced Biochemical & Biophysical Sci. Elec	3		
	CORE	Social & Behavioral Sciences	3					
Semester Hours			16	Semester Hours			13	29

YEAR 4	Semester 1			Semester 2			Total	
	CHEM 4373	Survey of Physical Chemistry OR	3	BCBS 4304	Biophysics	3		
	CHEM 4370	Physical Chemistry I		BCBS 4311	Biochemistry Laboratory II	3		
	BCBS 4306	Nucleic Acids	3	Elective	NSM Capstone or Electives	4		
	Elective	NSM Capstone or Elective	6	BCBS 4307	Proteins	3		
	Elective	Approved Advanced Biochemical and Biophysical Sciences Electives	3	CORE	Language, Philosophy & Culture	3		
Semester Hours			15	Semester Hours			15	30
							120	

Students should meet with their academic advisor to formulate their own plan.