

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

Bachelor of Science, Biochemical & Biophysical Sciences

Four-Year Academic Map 2024-2025

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	Intro to Biological Science I	3	BIOL 1307	Intro 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

YEAR 2	Semester 1			Semester 2				
	CORE	Creative Arts	3	CHEM 2325	Organic Chemistry II	3		
	CHEM 2323	Organic Chemistry I	3	CHEM 2125	Organic Chemistry II Lab	1		
	CHEM 2123	Organic Chemistry I Lab	1	BCHS 3304	General Biochemistry I	3		
	MATH 2415	Calculus III OR	3-4	BCHS 3201	Biochemistry I Lab	2		
	MATH 3338	Probability OR		PHYS 1301	College Physics I	3		
	MATH 3339	Statistics for the Sciences		PHYS 1101	College Physics I Lab	1		
	BIOL 3301	Mendelian and Population Genetics	3					
Semester Hours			13-14	Semester Hours			13	26-27

YEAR 3	Semester 1			Semester 2				
	PHYS 1302	College Physics II	3	Elective	NSM Capstone or Electives	3		
	PHYS 1102	College Physics II Lab	1	GOVT 2305	US Govt: Congress, Pres, & Courts	3		
	BCHS 3305	General Biochemistry II	3	CORE	American History	3		
	GOVT 2306	US & Texas Constitutions & Politics	3	Elective	Approved Advanced Biochemical and Biophysical Science Electives	6		
	CORE	American History	3					
	CORE	Social & Behavioral Sciences	3					
	Semester Hours			16	Semester Hours			15

YEAR 4	Semester 1			Semester 2				
	CHEM 4373	Survey of Physical Chemistry OR	3	BCHS 4304	Biophysics	3		
	CHEM 4370	Physical Chemistry I		BCHS 4311	Biochemistry II Lab	3		
	BCHS 4306	Nucleic Acids	3	Elective	NSM Capstone or Electives	7		
	Elective	Approved Advanced Biochemical and Biophysical Sciences Elective	3	BCHS 4307	Proteins	3		
	Elective	NSM Capstone or Electives	3-4					
	CORE	Language Philosophy & Culture	3					
	Semester Hours			15-16	Semester Hours			16
							120	

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