

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

Bachelor of Science, Biochemical & Biophysical Sciences

Four-Year Academic Map 2021-2022

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
	CORE	Creative Arts	3	CHEM 2325	Fundamentals of Organic Chem II	3	
	CHEM 2323	Fundamen of Organic Chemistry I	3	CHEM 2125	Funds of Organic Chem. II Lab	2	
	CHEM 2123	Fundamen of Organic Chem. I Lab	2	BCHS 3304	General Biochemistry I	3	
	MATH 2415	Calculus III OR	3-4	BCHS 3201	Biochemistry I Laboratory	2	
	MATH 3338	Probability OR		PHYS 1301	Introductory General Physics I	3	
	MATH 3339	Statistics for the Sciences		PHYS 1101	General Physics Laboratory I	1	
	BIOL 3301	Genetics	3	Semester Hours		14	28-29
Semester Hours		14-15	Semester Hours		14	28-29	

YEAR 3	Semester 1			Semester 2			Total
	PHYS 1302	Introductory General Physics II	3	Elective	NSM Capstone or Electives	3	
	PHYS 1102	General Physics Laboratory II	1	GOVT 2305	US Govt: Congress, Pres, & Courts	3	
	BCHS 3305	General Biochemistry II	3	HIST 1378	The United States Since 1877	3	
	GOVT 2506	US & Texas Constitutions & Politics	3	Elective	Approved Advanced Biochemical and Biophysical Science Electives	6	
	HIST 1377	The United States to 1877	3	Semester Hours		15	31
	CORE	Social & Behavioral Sciences	3	Semester Hours		15	31
	Semester Hours		16	Semester Hours		15	31

YEAR 4	Semester 1			Semester 2			Total
	CHEM 4373	Survey of Physical Chemistry OR	3	BCHS 4304	Biophysics	3	
	CHEM 4370	Physical Chemistry I		BCHS 4311	Biochemistry Laboratory II	3	
	BCHS 4306	Nucleic Acids	3	Elective	NSM Capstone or Electives	6	
	Elective	Approved Advanced Biochemical and Biophysical Sciences Elective	3	BCHS 4307	Proteins	3	
	Elective	NSM Capstone or Electives	3-4	Semester Hours		15	30-31
	CORE	Language Philosophy & Culture	3	Semester Hours		15	30-31
	Semester Hours		15-16	Semester Hours		15	30-31
						120	

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