



College of Natural Sciences & Mathematics

Bachelor of Science - Biochemical and Biophysical Sciences

Four-Year Academic Map – 2014-2015

Year 1	Semester 1			Semester 2			Total
	ENGL 1303	First Year Writing I	3	ENGL 1304	First Year Writing II	3	
	CHEM 1331	Fundamentals of Chemistry I	3	CHEM 1332	Fundamentals of Chemistry II	3	
	CHEM 1111	Fundamentals of Chemistry I Lab	1	CHEM 1112	Fundamentals of Chemistry II Lab	1	
	MATH 1431	Calculus I	4	MATH 1432	Calculus II	4	
	BIOL 1361	Introduction to Biological Science	3	BIOL 1362	Introduction to Biological Science	3	
	BIOL 1161	Intro to Biological Science Lab	1	BIOL 1162	Intro to Biological Science Lab	1	
	Semester Hours			15	Semester Hours		15
						30	

Year 2	Semester 1			Semester 2			Total
	CORE	Creative Arts	3	CHEM 3332	Fundamentals of Organic Chemistry II	3	
	CHEM 3331	Fundamentals of Organic Chemistry I	3	CHEM 3222	Fundamentals of Organic Chem. II Lab	2	
	CHEM 3221	Fundamentals of Organic Chem. I Lab	2	BCHS 3304	General Biochemistry I	3	
	MATH 2433	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
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	Elective	Approved Biochemical and Biophysical Science Electives	6		
	BCHS 3305	General Biochemistry II	3	POLS 1337	US Govt: Congress, President, & Courts	3		
	POLS 1336	US & Texas Constitutions & Politics	3	HIST 1378	The United States Since 1877	3		
	HIST 1377	The United States to 1877	3	Semester Hours			15	
	CORE	Social & Behavioral Sciences	3				31	
	Semester Hours			16	Semester Hours		15	

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 Biochemical and Biophysical Sciences Elective	3	BCHS 4307	Proteins	3		
	Elective	NSM Capstone or Electives	3-4	Semester Hours			15	
	CORE	Language Philosophy & Culture	3				30-31	
	Semester Hours			15-16	Semester Hours		15	
						120		

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

