

SUGGESTED PROGRAM – BACHELOR OF SCIENCE IN BIOCHEMISTRY

FIRST YEAR

Fall Semester Suggested Program	
Courses	Hours
ENGL 1303. First Year Writing I	3
CHEM 1331 and 1111. Fundamentals of Chemistry and Fundamentals of Chemistry Laboratory	4
MATH 1431. Calculus I	4
BIOL 1361, 1161. Introduction to Biological Science, Laboratory	4
Total	15

Spring Semester Suggested Program	
Courses	Hours
ENGL 1304. First Year Writing II	3
CHEM 1332 and 1112. Fundamentals of Chemistry and Fundamentals of Chemistry Laboratory	4
MATH 1432. Calculus II	4
BIOL 1362, 1162. Introduction to Biological Science, Laboratory	4
Total	15

SECOND YEAR

Fall Semester Suggested Program	
Courses	Hours
Visual/Performing Arts Core Course	3
CHEM 3331 and 3221. Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	5
MATH 2433 or 3338 or 3339.	4
BIOL 3301. Genetics	3
Total	15

Spring Semester Suggested program	
Courses	Hours
CHEM 3332 and 3222. Fundamentals of Organic Chemistry and Fundamentals of Organic Chemistry Laboratory	5

BCHS 3304 and 3201 . General Biochemistry I and Biochemistry Laboratory I	5
PHYS 1301 and 1101. Introductory General Physics and General Physics Laboratory I	4
Total	14

THIRD YEAR

Fall Semester Suggested Program	
Courses	Hours
PHYS 1302 and 1102 . Introductory General Physics and General Physics Laboratory II	4
BCHS 3305 General Biochemistry II	3
POLS 1336 . U.S. and Texas Constitutions and Politics or equivalent	3
HIST 1377 . The United States to 1877 or equivalent	3
Social Sciences Core Course	3
Total	16

Spring Semester Suggested Program	
Courses	Hours
Humanities Core Course	3
Biochemical and Biophysical Sciences Elective	3
POLS 1337 . US Government: Congress, President, and Courts or equivalent	3
HIST 1378 . The United States Since 1877 or equivalent	3
Electives	3
Total	15

FOURTH YEAR

Fall Semester Suggested Program	
Courses	Hours
CHEM 4373 . Survey of Physical Chemistry, or CHEM 4370 . Physical Chemistry I	3
BCHS 4306 . Nucleic Acids	3
Biochemical and Biophysical Sciences Electives	6
NSM Capstone Course	3
Total	15

Spring Semester Suggested Program	
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Courses	Hours
BCHS 4304. Biophysics	3
BCHS 4311. Biochemistry Laboratory II	3
Electives	3
NSM Capstone Course	3
BIOL 4307. Proteins	3
Total	15