

Biophysical Sciences B.S.

Required Core Courses	
Physics Core Required Courses (23 CR)	PHYS 1303 or 1307 1304 or 1308 1105, 1106, 3305, 3306, 3344, 3374, 4392
Chemistry Core Required Courses (25 CR)	CHEM 1303, 1113, 1304, 1114, 3371, 3117, 3372, 3118, 4382, 4383, 4384
Biology Core Required Courses (20 CR)	BIOL 1301, 1101, 1302, 1102, 3304, 3350, 4310, 4311
Mathematics Core Required Courses (15 CR)	MATH (1337 and 1338) or 1340 3302, 3304, 3313
Total required credit hours: 83 CR	

Elective Courses	
Option 1: Take 6 credits of approved electives	APSM 3321, PHYS 4311, PHYS 4382, CHEM 4308, CHEM 4317, MATH 4335
Option 2: SMU-UT Southwestern Undergraduate Research Fellowship Program (12 CR)	Upon successful completion, students receive 6 credit hours toward their biophysical sciences major requirements by enrolling in CHEM 4308 and PHYS 4390 and 6 credit hours toward their graduation total as advanced elective credits by enrolling in CHEM 4697.

Notes:

- Students should meet with advisor each semester.
- No advanced Biology courses except Genetics and Cell Biology can be double counted towards this major and the Biology major or minor.
- If you major in Biophysical Sciences, you cannot receive a minor or a second major in Chemistry.
- If you major in Biophysical Sciences, you cannot receive a minor in Physics.

Suggested 4-year Plan with Option 1 of elective courses

Year 1:	
Fall	Spring
MATH 1337 Calculus 1	MATH 1338 Calculus 2
BIOL 1301 + BIOL 1101 Introductory Biology + Biology Lab	BIOL 1302 + BIOL 1102 Introductory Biology + Biology Lab
CHEM 1303 General Chemistry	CHEM 1304 General Chemistry
CHEM 1113 Chemistry Lab	CHEM 1114 Chemistry Lab
Year 2:	
Fall	Spring
MATH 3302 Multi-Variable and Vector Calculus	MATH 3313 Differential Equations
BIOL 3304 Genetics	BIOL 3350 Cell Biology
CHEM 3371 Organic Chemistry	CHEM 3372 Organic Chemistry
CHEM 3117 Organic Chemistry Lab	CHEM 3118 Organic Chemistry Lab
PHYS 1105 Mechanics Laboratory	PHYS 1106 Electricity and Magnetism Lab
PHYS 1303 or 1307 Introductory Mechanics	PHYS 1304 or 1308 Introductory E&M
Year 3	
Fall	Spring
BIOL 4310 Biochem I	BIOL 4311 Biochem II
CHEM 4383 Physical Chem I	CHEM 4384 Physical Chem II
PHYS 3344 Classical Mechanics	MATH 3304 Linear Algebra
PHYS 3305 Introduction to Modern Physics	PHYS 3306 Intermediate Physics
Year 4	
Fall	Spring
CHEM 4382 Physical Chem of Proteins	PHYS 4392 Electricity and Magnetism
PHYS 3374 Thermo & Stat Mech	A Biophysical Sciences elective course
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- If you major in Biophysical Sciences, you cannot receive a minor in Physics.

Suggested 4-year Plan with Option 2 of elective courses (SMU-UTSW Undergraduate Research Fellowship Program)

Year 1:	
Fall	Spring
MATH 1337 Calculus 1	MATH 1338 Calculus 2
BIOL 1301 + BIOL 1101 Introductory Biology + Biology Lab	BIOL 1302 + BIOL 1102 Introductory Biology + Biology Lab
CHEM 1303 General Chemistry	CHEM 1304 General Chemistry
CHEM 1113 Chemistry Lab	CHEM 1114 Chemistry Lab
Year 2:	
Fall	Spring
MATH 3302 Multi-Variable and Vector Calculus	MATH 3313 Differential Equations
BIOL 3304 Genetics	BIOL 3350 Cell Biology
CHEM 3371 Organic Chemistry	CHEM 3372 Organic Chemistry
CHEM 3117 Organic Chemistry Lab	CHEM 3118 Organic Chemistry Lab
PHYS 1105 Mechanics Laboratory	PHYS 1106 Electricity and Magnetism Lab
PHYS 1303 or 1307 Introductory Mechanics	PHYS 1304 or 1308 Introductory E&M
Year 3	
Fall	Spring
BIOL 4310 Biochem I	SMU-UT Southwestern Undergraduate Research Fellowship
CHEM 4383 Physical Chem I	
PHYS 3344 Classical Mechanics	
PHYS 3305 Introduction to Modern Physics	
Year 4	
Fall	Spring
MATH 3304 Linear Algebra	PHYS 3306 - Intermediate Physics
PHYS 3374 Thermo & Stat Mech	PHYS 4392 Electricity and Magnetism
CHEM 4382 Physical Chem of Proteins	BIOL 4311 Biochem II
	CHEM 4384 Physical Chem II