

BS-Biological Sciences-Cell Molecular Biology-Emphasis: BA/BS-BSCI

Core Curriculum Courses

See the Core Curriculum Requirements (<https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

Required Courses in the Major 33

BSC 1406	Introductory Biology I	4
BSC 1407	Introductory Biology II	4
BSC 303	Cell Biology	4
BSC 304	Genetics	4
BSC 305	General Physiology	4
BSC 306	Applied Microbiology	4
BSC 307	Ecology	3
BSC 401	Research Literature and Seminar	3
BSC 412	Fundamentals of Biostatistics	3

Required Support Courses 23

CHEM 1311	General and Quantitative Chemistry I *	
CHEM 1111	General and Quantitative Chemistry Laboratory I	1
CHEM 101	General Chemistry Tutorial I	1
CHEM 1312	General and Quantitative Chemistry II *	
CHEM 1112	General and Quantitative Chemistry Laboratory II	1
CHEM 102	General Chemistry Tutorial II	1
CHEM 2323	Organic Chemistry I	3
CHEM 2123	Organic Chemistry Laboratory I	1
CHEM 2325	Organic Chemistry II	3
CHEM 2125	Organic Chemistry Laboratory II	1
PHYS 1401	College Physics I	4
or PHYS 2425	University Physics I	
PHYS 1402	College Physics II	4
or PHYS 2426	University Physics II	
SOC 1301	Introduction to Sociology *	

Plus 6 sequential sch from:

MATH 1314	College Algebra *	
MATH 2312	Pre-Calculus *	
MATH 2413	Calculus I *	
MATH 2414	Calculus II *	
HHPH 331	Nutrition *	
or PSY 2301	Introduction to Psychology	

Advanced Courses Required - choose 25 or 26 sch from below 25

BSC 424	SEA-PHAGES I: Discovery of Bacteriophages	
CHEM 314	General Biochemistry	
BSC 431	Eukaryotic Cell Biology	
BSC 419	Gene Control	
BSC 430	Introductory Virology	

Plus 6 sch from:

BSC 493	SEA-PHAGES II: Molecular and Bioinformatics Techniques	
BSC 420	Immunology	
BSC 425	Fundamentals of Neuroscience	
BSC 427	Pharmacology	
BSC 414	Evolutionary Biology	

BSC 492	Developmental Biology
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Total Hours

123

* This course should be used to satisfy the Core Curriculum Requirements.

First Year

Fall	Hours
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Total Hours: 0