

BIOMEDICAL SCIENCES, BS

Course Sequencing

Pre-Professional

First Year

Fall		Hours
BIOL 1406	Biology I	4
CHEM 1411	General Chemistry I	4
ENGL 1301	Writing and Rhetoric I	3
USSE 1201	University Seminar	2
MATH 2312	Precalculus	3

Hours 16

Spring

BIOL 1407	Biology II	4
CHEM 1412	General Chemistry II	4
ENGL 1302	Writing and Rhetoric II	3
MATH 2413	Calculus I	4

Hours 15

Summer

HIST 1301	U.S. History to 1865	3
HIST 1302	U.S. History Since 1865	3

Hours 6

Second Year

Fall

BIOL 2416	Genetics	4
CHEM 3411	Organic Chemistry I	4
BIOL 2371	Principles of Evolution	3
Creative Arts Core Requirement		3

Hours 14

Spring

BIOL 2421	Microbiology	4
CHEM 3412	Organic Chemistry II	4
PSYC 2301	General Psychology	3
or SOCI 1301	or Introduction to Sociology	

Hours 11

Summer

POLS 2305	U.S. Government and Politics	3
POLS 2306	State and Local Government	3

Hours 6

Third Year

Fall

PHYS 1401	General Physics I	4
CHEM 4401	Biochemistry I	4
Language, Philosophy & Culture Core Requirement (ENGL 2316, 2332, 2333)		3
BIOL 3410	Cell Biology	4

Hours 15

Spring

PHYS 1402	General Physics II	4
CHEM 4402	Biochemistry II	4
or BIMS 3403	or Molecular Biology	

MATH 1442	Statistics for Life	3-4
or MATH 3342	or Applied Probability and Statistics	
or BIOL 3325	or Biostatistics	

BIOL 4334	Biology and Ecology of Coral Reefs	3
or BIOL 3345	or Cell Physiology	

Hours 14-15

Summer

BIMS 4327	Introduction to Toxicology	3
or BIOL 4304	or Biology of Viruses	

Hours 3

Fourth Year

Fall

BIOL 3430	Physiology	4
or BIMS 3401	or Pathophysiology	

BIMS 4311	Biology of Cancer	3
or BIMS 4374	or Medical Microbiology	

BIOL 4340	Genomics, Proteomics and Bioinformatics (or other BIMS/BIOL/CHEM elective)	3
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BIMS 4335	Endocrinology	3-4
or BIOL 4408	or Microbial Diversity and Ecology	
or BIMS 4410	or Histology	
or BIMS 4375	or Mechanisms of Microbial Pathogenesis	

Hours 13-14

Spring

BIMS 4323	Neurobiology (OR BIOL)	3
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BIMS 4406	Immunology	4
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BIOL or BIMS OR CHEM elective		4
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BIMS 4085	Major Field Test in Biology	0
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Hours 11

Total Hours 124-126

Forensic Science

First Year

Fall **Hours**

BIOL 1406	Biology I	4
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CHEM 1411	General Chemistry I	4
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ENGL 1301	Writing and Rhetoric I	3
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USSE 1201	University Seminar	2
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MATH 2312	Precalculus	3-4
or MATH 2413	or Calculus I	

Hours 16-17

Spring

BIOL 1407	Biology II	4
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CHEM 1412	General Chemistry II	4
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ENGL 1302	Writing and Rhetoric II	3
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MATH 2413	Calculus I	3-4
or PSYC 2301	or General Psychology	
or SOCI 1301	or Introduction to Sociology	

Hours 14-15

Summer

HIST 1301	U.S. History to 1865	3
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HIST 1302	U.S. History Since 1865	3
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Hours 6

Second Year**Fall**

BIOL 2416	Genetics	4
CHEM 3411	Organic Chemistry I	4
BIOL 2401	Anatomy and Physiology I	4
BIMS 3320	Survey of Forensic Science	3

Hours	15
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Spring

BIOL 2421	Microbiology	4
CHEM 3412	Organic Chemistry II	4
MATH 3342	Applied Probability and Statistics	3
BIOL 2402	Anatomy and Physiology II	4

Hours	15
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Summer

POLS 2305	U.S. Government and Politics	3
POLS 2306	State and Local Government	3

Hours	6
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Third Year**Fall**

PHYS 1401 or PHYS 2425	General Physics I or University Physics I	4
CHEM 4401	Biochemistry I	4
Creative Arts Core Requirement		3
ENGL 2316 or ENGL 2332 or ENGL 2333	Literature and Culture or Literature of the Western World: From the Classics to the Renaissance or Literature of the Western World: From the Enlightenment to the Present	3

BIMS Forensic Science Elective		3
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Hours	17
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Spring

PHYS 1402 or PHYS 2426	General Physics II or University Physics II	4
CHEM 4402	Biochemistry II	4
CHEM 3418	Instrumental Analysis	4
BIMS 3325 or BIMS 4340	Professional Practice in Forensic Science or Forensic Science in Criminal Law	3

Hours	15
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Summer

BIMS 4327	Introduction to Toxicology	3
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Hours	3
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Fourth Year**Fall**

BIMS 4410 or BIOL 3410	Histology or Cell Biology	4
ENGL 3301	Technical and Professional Writing	3
BIMS Forensic Science Elective		3
BIMS Forensic Science Elective		4

Hours	14
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Total Hours	121-123
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