

BIOMEDICAL SCIENCES, BS

Course Sequencing

Pre-Professional

First Year

Fall		Hours
BIOL 1406	Biology I	4
CHEM 1411	General Chemistry I	4
UNIV 1101	University Seminar I	1
ENGL 1301	Writing and Rhetoric I	3
MATH 2312	Precalculus	3

Hours 15

Spring

BIOL 1407	Biology II	4
CHEM 1412	General Chemistry II	4
UNIV 1102	University Seminar II	1
ENGL 1302	Writing and Rhetoric II	3
MATH 2413	Calculus I	4

Hours 16

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 or SOCI 1301	General Psychology or Introduction to Sociology	3

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 or BIMS 3403	Biochemistry II or Molecular Biology	4
---------------------------	---	---

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

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

Hours 14-15

Summer

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

Hours 3

Fourth Year

Fall

BIOL 3430 or BIMS 3401	Physiology or Pathophysiology	4
---------------------------	----------------------------------	---

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

BIOL 4340	Genomics, Proteomics and Bioinformatics (or other BIMS/BIOL/CHEM elective)	3
-----------	---	---

BIMS 4335 or BIOL 4408 or BIMS 4410 or BIMS 4375	Endocrinology or Microbial Diversity and Ecology or Histology or Mechanisms of Microbial Pathogenesis	3-4
---	--	-----

Hours 13-14

Spring

BIMS 4323	Neurobiology (OR BIOL)	3
-----------	------------------------	---

BIMS 4406	Immunology	4
-----------	------------	---

BIOL or BIMS OR CHEM elective		4
-------------------------------	--	---

BIMS 4085	Major Field Test in Biology	0
-----------	-----------------------------	---

Hours 11

Total Hours 124-126

Forensic Science

First Year

Fall **Hours**

BIOL 1406	Biology I	4
-----------	-----------	---

CHEM 1411	General Chemistry I	4
-----------	---------------------	---

UNIV 1101	University Seminar I	1
-----------	----------------------	---

ENGL 1301	Writing and Rhetoric I	3
-----------	------------------------	---

MATH 2312 or MATH 2413	Precalculus or Calculus I	3-4
---------------------------	------------------------------	-----

Hours 15-16

Spring

BIOL 1407	Biology II	4
-----------	------------	---

CHEM 1412	General Chemistry II	4
-----------	----------------------	---

UNIV 1102	University Seminar II	1
-----------	-----------------------	---

ENGL 1302	Writing and Rhetoric II	3
-----------	-------------------------	---

MATH 2413	Calculus I	3-4
-----------	------------	-----

or PSYC 2301 or SOCI 1301	or General Psychology or Introduction to Sociology	
------------------------------	---	--

Hours 15-16

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 2401	Anatomy and Physiology I	4
BIMS 3320	Survey of Forensic Science	3
Hours		15

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

Summer

POLS 2305	U.S. Government and Politics	3
POLS 2306	State and Local Government	3
Hours		6

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
Hours		17

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

Summer

BIMS 4327	Introduction to Toxicology	3
Hours		3

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
Total Hours	121-123