

General Course outline for Biomedical Chemistry*

(entering even fall)

Year 1

Fall semester (even)	Spring semester (odd)
CHEM123 General Chemistry I (4)	CHEM124 General Chemistry II (4)
BIOL110 General Biology (4)	BIOL226 General Microbiology (4)
ENGL120 Introductory English Composition (3)	ENGL121 Intermediate English Composition (3)
INTD105 Wesleyan Experience (2)	SCTH110 Principles of Speech (3)
MATH120 College Algebra (3)	MATH121 Pre-calculus (3)

Year 2

Fall semester (odd)	Spring semester (even)
CHEM300 Organic Chemistry I (4)	CHEM320 Organic Chemistry II (4)
CHEM310 Organic Laboratory Techniques (2)	CHEM330 Organic Synthesis and Spectroscopy (2)
BIOL221 Human Anatomy and Physiology I (3)	BIOL222 Human Anatomy and Physiology II (3)
MATH145 Calculus I (4)	BSHS Statistics
Liberal studies /elective	Liberal studies /elective

Year 3

Fall semester (even)	Spring semester (odd)
<i>#BIOL415 Genetics</i>	<i>#BIOL400 Immunology</i>
PHYS221 University Physics I	PHYS222 University Physics II
PHYS221L University Physics I lab	PHYS222L University Physics II lab
Liberal studies /elective or <i>#Bio/chem. elective</i>	Liberal studies /elective or <i>#Bio/chem. elective</i>
Liberal studies /elective	Liberal studies /elective

Year 4

Fall semester (odd)	Spring semester (even)
<i>#CHEM410 Biochemistry I</i>	<i>#CHEM420 Biochemistry II</i>
Liberal studies /elective or <i>#Bio/chem. elective</i>	<i>#BIOL425 Cellular Molecular Biology</i>
Liberal studies /elective	Liberal studies /elective
Liberal studies /elective	Liberal studies /elective

*assumes student has completed courses in High School General Biology, Chemistry and Algebra with Trigonometry. Strong math background may omit College Algebra and PreCalculus to take Calculus in Freshman year

#alternate year course

Biomedical Chemistry Major Requirements – 67-69 Credit Hours

The student must complete *all* of the following courses:

BIOL 110 General Biology	4
BIOL 221 Human Anatomy & Physiology I	3
BIOL 222 Human Anatomy & Physiology II.....	3
BIOL 226 General Microbiology.....	4
BIOL 400 Immunology	3
BIOL 415 Genetics	4
BIOL425 Cellular Molecular Biology	3
CHEM 123 General Chemistry I	4
CHEM 124 General Chemistry II	4
CHEM 300 Organic Chemistry I	4
CHEM 310 Organic Laboratory Techniques	2
CHEM 320 Organic Chemistry II	4
CHEM 330 Organic Synthesis & Spectroscopy	2
CHEM 410 Biochemistry I	3
CHEM 420 Biochemistry II	3
MATH 145 Calculus I	4
BSHS220 Statistics	4
PHYS 221 University Physics I	4
PHYS 221L University Physics I Lab	1
PHYS 222 University Physics II	4
PHYS 222L University Physics II Lab	1

The student must also complete

one of the following:

CHEM 221 Quantitative Analysis	5
CHEM 323 Inorganic Chemistry	3
CHEM 427 Physical Chemistry I	4