

Biological Chemistry

University Proficiencies					
	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
ACT English 24-25, SAT Writing 550-580 Proficiency in first semester or ENGL 111 (Skip ENGL 111 if ACT 26+, SAT 590+)	Score		ACT English <20, SAT Writing <470 ENGL 102 Basic English Skills May take Proficiency at end of ENGL 102	3	
ACT English 20-23, SAT Writing 470-540 ENGL 111 Composition	3				
Evangel University Frameworks Requirements					
	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
BIBL 111 Essential Christianity	3		MATH 210 Statistics	3	
BIBL 115 Old Testament Literature	3		Natural Science	3	NA
BIBL 116 New Testament Literature	3		Natural Science with a lab	4	NA
BIBL 360-370 Book Study (choose one)	3		PSYC 138 Psychology of Healthy Relationships	3	
FIN 138 Personal Finance	3		ICST 350 Global Connections	3	
FRWK 220 Order	3		ENGL 341 Technical Writing (Writing Proficiency Required)	3	
FRWK 230 Humanity	3				
FRWK 240 Culture	3		Social Science Elective: Strongly recommend HIST 111 Am Hist I or GOVT Intro Am Gov	3	
FRWK 320 Pentecost	3				
Humanities Elective	3		University Seminar: GSCI 100	1	
Program Requirements					
	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
BIOL 200 General Biology	4		CHEM 111 General Chemistry I	5	
BIOL 201 Zoology	4		CHEM 112 General Chemistry II	5	
BIOL 311 Human A&P I or BIOL/CHEM Elective	4		CHEM 271 Organic Chemistry I	4	
BIOL 312 Human A&P II or BIOL/CHEM Elective	4		CHEM 272 Organic Chemistry II	4	
BIOL 335 Microbiology	4		CHEM 278 Organic Analysis and Methods	2	
BIOL 338 Genetics or BIOL/CHEM Elective	4		CHEM 375 Biochemistry	4	
BIOL 437 Cell Biology	3		CHEM 431 Physical Chemistry I or CHEM 331 Quantitative Analysis	4	
BIOL 496 Senior Seminar	1		MATH 231 Calculus I	4	
BIOL/CHEM Elective	4		CPSC 101 Personal Computing (proficiency)*	3	
			PHYS 211 General Physics I	5	
			PHYS 212 General Physics II	5	
Minimum total credits to graduate				126	
*CPSC 101 must be taken for 3 credits if the proficiency exam is not passed. The proficiency exam is to be taken in the first semester. BIOL 311 & 312 are highly recommended for those desiring to pursue a medical career.					

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Biological Chemistry

The biological chemistry major was designed to be an interdisciplinary major for biology or chemistry students seeking further graduate training in a biological or medical setting. This major provides biology or chemistry students a program with a greater research emphasis. The major represents a solid first step for students who plan to enter graduate school to study molecular biology, biochemistry, or other programs in life or chemical sciences. A major in biological chemistry is also a perfect fit for students looking toward careers in medicine, pharmacy, or dentistry.

Suggested Course Sequencing: Recommend 15 – 18 semester hours;
however, attending summer school will reduce semester hours.

Freshman year

Semester 1	Cr
CHEM 111 General Chemistry I [a]	5
BIOL 200 General Biology	4
MATH 231 Calculus I [b]	4
BIBL 111 Essential Christianity	3
GSCI 100 University Seminar	1
CPSC 101 (proficiency exam)	0

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Semester 2	Cr
CHEM 112 General Chemistry II	5
BIOL 201 Zoology	4
BIBL 115 Old Testament Literature	3
CPSC 101 Introduction to Personal Computing	3
ENGL 111 Composition	3

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Sophomore year

Semester 1	Cr
CHEM 271 Organic Chemistry I	4
PHYS 211 General Physics I	5
MATH 210 Statistics	3
BIBL 116 New Testament Literature	3

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Semester 2	Cr
CHEM 272 Organic Chemistry II	4
CHEM 278 Organic Analysis and Methods	2
PHYS 212 General Physics II	5
BIOL 335 Microbiology	4
ENGL 341 Technical Writing	3

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Junior year

Semester 1	Cr
BIOL 311 Human A&P I (or BIOL/CHEM Elective)	4
CHEM 375 Biochemistry	4
CHEM 431 Physical Chemistry I (or CHEM 331) [c]	4
BIBL 360-370 Book Study	3
FRWK 220 Order	3

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Semester 2	Cr
BIOL 312 Human A&P II (or BIOL/CHEM Elective)	4
BIOL 437 Cell Biology	3
FRWK 230 Humanity	3
PSYC 138 Psychology of Healthy Relationships	3

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Senior year

Semester 1	Cr
BIOL 338 Genetics (or BIOL/CHEM Elective)	4
BIOL/CHEM Elective	4
FRWK 240 Culture	3
Humanities Elective	3

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Semester 2	Cr
BIOL 496 Senior Seminar	1
FIN 138 Personal Finance	3
FRWK 320 Pentecost	3
HIST 111 or GOVT 170	3
ICST 350 Global Connections	3

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Total minimum to graduate 126

and must include at least 36 upper division credits

[a] Those not prepared for CHEM 111 should take CHEM 101 - Introduction to Chemistry.

[b] Those not prepared for Calculus should take MATH 129 - College Algebra and Trigonometry.

[c] CHEM 431 and CHEM 331 to be offered in alternate years.

Graduation requires an overall GPA of at least 2.0, and 30 of the 40 final credits must be taken at Evangel.

The listing above only represents a suggested course sequencing as required to graduate with this major. Students are ultimately responsible for their own degree program. An academic advisor is assigned to the student for guidance in these matters, but the responsibility for meeting the requirements belongs to the student.