

Biochemistry

Suggested Course Sequencing: Recommend 15 – 18 semester hours; however, attending summer school will reduce semester hours. Students should work with their academic advisor to choose electives based on their career plans.

Freshman year

Semester 1	Cr
BIOL 200 General Biology	4
CHEM 111 General Chemistry I [a]	5
GSCI 100 University Seminar	1
MATH 231 Calculus I	4
BIBL 111 Essential Christianity	3
	17

Semester 2	Cr
BIBL 115 Old Testament Literature	3
CHEM 112 General Chemistry II	5
ENGL 111 Composition	1
EXER 101 Lifetime Health Awareness	1
FIN 138 Personal Finance	3
	13

Sophomore year

Semester 1	Cr
CHEM 271 Organic Chemistry I	4
PHYS 211 Physics I	5
MATH 210 Elementary Statistics	3
BIBL 116 New Testament Literature	3
	15

Semester 2	Cr
CHEM 272 Organic Chemistry II	4
PHYS 212 Physics II	5
PSYC 112 Introduction to Psychology	3
Reading and Imagination Option	3
	15

Junior year

Semester 1	Cr
BIOL 338 Classical and Molecular Genetics	4
CHEM 375 Biochemistry I	4
BIOL/CHEM Elective	4
BIBL 360-370 Book Study	3
	15

Semester 2	Cr
CHEM 376 Biochemistry II [b]	3
CHEM 425 Medicinal Chemistry [b]	3
ENGL 341 Technical Writing	3
ICST 454 Global Cultures & Compassion	3
Behavioral and Social Sciences Option	3
	15

Senior year

Semester 1	Cr
BIOL/CHEM Elective	4
BIOL/CHEM 496 Seminar	1
CHEM 331 Quantitative Analysis or BIOL 405 PHAGES: Discovery [c]	4(2)
CPSC 111 Introduction to Computer Science	3
Artistic Expression Option	3
	15(13)

Semester 2	Cr
BIOL 437 Cell Biology [b]	3
BIOL/CHEM Elective	4
THEO 320 Pentecost	3
Historical Inquiry Option	3
Humanities Option	3
BIOL 410 PHAGES: Bioinformatics [c]	(2)
	16(18)

Total minimum to graduate **124**
and must include at least **36** upper division credits

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

[b] CHEM 376, CHEM 425, and BIOL 437 are alternate year classes

[c] If BIOL 405 is taken in the Fall, BIOL 410 must be taken in the Spring.

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.

Name: _____

Date: _____

Advisor: _____

Biochemistry

University Writing Proficiency and Placement Information

Writing Proficiency earned by . . . circle one: ENGL 111 ACT/SAT/CLT (Score:) AP CLEP IB

ACT English \geq 26 or SAT Writing/Language (W/L) \geq 33, CLT Writing/Grammar (W/G) \geq 32: Student is proficient. Enroll in Effective Communication option. Refer to each term's "Core Options" document for available choices.

If transfer student has ENGL 111 composition only, enroll in a 200-level Effective Communication course.

If transfer student has a 200-level (or above) composition course, check for Speech course. If no Speech listed, enroll in COMM 211.

If transfer student has a 200-level composition course AND a Speech course, he or she is proficient.

If student has no test scores, enroll in ENGL 102.

ACT English = 24-25, SAT W/L 31-32, CLT W/G 30-31: take Writing Step-Up Exam in first semester.

ACT English 20-23, SAT W/L 28-30, CLT W/G 24-29: ENGL 111	3		Wellness Proficiency	Cr	<input checked="" type="checkbox"/>
ACT English 16-19, SAT W/L 23-27, CLT W/G 19-23: ENGL 102	2		EXER 101 Lifetime Health Awareness	1	
ACT English \leq 15, SAT W/L \leq 22, CLT W/G \leq 18: ENGL 100	1				

Core Curriculum Requirements

	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
GSCI 100 University Seminar	1		Effective Communication (WPR)**: ENGL 341	3	
BIBL 111 Essential Christianity	3		MATH 210 Elementary Statistics	3	
BIBL 115 Old Testament Literature	3		Historical Inquiry Option*	3	
BIBL 116 New Testament Literature	3		Artistic Expression Option*	3	
BIBL 360 - 370 Book Study (WPR)*	3		Behavioral and Social Sciences Option*	3	
THEO 320 Pentecost	3		Humanities Option*	3	
ICST 454 Global Cultures & Compassion*	3		Healthy Relationships: PSYC 112	3	
Natural Science without Lab Option*	3	NA	Christian Stewardship: FIN 138 Personal Finance	3	
Natural Science with Lab Option*	4	NA	Reading and Imagination: ENGL 123*	3	
*Refer to each term's "Core Options" document for available choices. WPR = Writing Proficiency Required: ENGL 111 or ACT English \geq 26			**ENGL/COMM 205 or 341; ENGL 211, 212, or 236 If student has ENGL 201 in transfer, enroll in COMM 211.		

Major Requirements

	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
Required Chemistry Courses			Elective BIOL/CHEM Courses (12 credits)		
CHEM 111 General Chemistry I	5		BIOL or CHEM courses level 200 or above	12	
CHEM 112 General Chemistry II	5				
CHEM 271 Organic Chemistry I	4		Required Physics Courses		
CHEM 272 Organic Chemistry II	4		PHYS 211 General Physics I	5	
CHEM 375 Biochemistry I	4		PHYS 212 General Physics II	5	
CHEM 376 Biochemistry II	3				
CHEM 425 Medicinal Chemistry	3		Required Computer Course (choose 1)		
CHEM/BIOL 496 Senior Seminar	1		CPSC 101 Introduction to Personal Computers	3	
			CPSC 111 Introduction to Computer Science	3	
Required Courses (4 credits)					
CHEM 331 Quantitative Analysis (or Research)	4		Required Biology Courses		
BIOL 405 PHAGES: Discovery	2		BIOL 200 General Biology	4	
BIOL 410 PHAGES: Bioinformatics	2		BIOL 338 Molecular and Classical Genetics	4	
			BIOL 437 Cell Biology	3	
Required Math Course					
MATH 231 Calculus I	4				

Minimum total credits to graduate 124

BIOL 311 & 312 are highly recommended for those desiring to pursue a medical, PT, or pharmacy career. CHEM 431 is recommended for those desiring to pursue graduate studies in biochemistry.

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