

Bachelor of Science (B.S.) Degree with Major in Biochemistry

Sample Four-Year Plan Starting in Odd Year

First Year Fall (Odd Year)

BBL	1013	Old Testament Survey
CHM	1124	General Chemistry I
COR	1002	Gateway Seminar
EGL	1013	English I: Composition
MTH	1134	Calculus I
Total Hours 16		

Second Year Fall (Even Year)

BBL	1023	New Testament Survey
CHM	3134	Organic Chemistry I
HST	2013	Integrated Humanities I
PHY	2114	General Physics I
Total Hours 14		

Third Year Fall (Odd Year)

BIO	3174	Molecular Cell Biology†
CHM	3183	Advanced Inorganic Chemistry†
	___4	Biology/Chemistry Elective
	___3	Arts & Humanities (AH) Elective
Total Hours 14		

Fourth Year Fall (Even Year)

BBL	2022	Essentials of Christian Formation
CHM	3164	Biochemistry I
CHM	3114	Advanced Analytical Chemistry†
	___3	SBS or AH Elective (see above)
	___2	Elective
Total Hours 15		

First Year Spring (Even Year)

BIO	1124	Cell Biology
CHM	1134	General Chemistry II
EGL	1023	English II: Literary Analysis/Research
MTH	1144	Calculus II
Total Hours 15		

Second Year Spring (Odd Year)

CHM	3144	Organic Chemistry II
HST	2023	Integrated Humanities II
PHY	2124	General Physics II
	___3	Elective
	___2	Whole Person Wellness Elective
Total Hours 16		

Third Year Spring (Even Year)

BBL	2013	Essentials of Evangelical Theology
BIO	4103	Bioethics (or GSC 4133 senior year)
	___3	Social/Behavioral Sci. (SBS) Elective
	___3	Elective
	___3	Elective
Total Hours 15		

Fourth Year Spring (Odd Year)-Major Field Test Exam

CHM	3174	Biochemistry II†
CHM	4134	Physical Chemistry Quantum†
CHM	4501	Biochemistry Capstone
	___3	Intercultural Engagement Elective
	___3	Elective
Total Hours 15		

Total Hours for Four Years: 120

† Note: The order of alternate year courses will differ depending on whether a student begins their studies at JBU in an even/odd yr.

Biochemistry Electives

BIO 3334 Microbiology (Spring)
 BIO 3524 Human Physiology (Spring)
 BIO 3614 Virology (Fall, EVEN)
 BIO 4221-3 Biological Research (Every)

CHM 3151-4 Selected Topics (Request)
 CHM 4221-3 Chemistry Research (Every)
 CHM 4310 Chemistry Internship (Every)
 CHM 4124 Phys Chem Thermodynamics (Spring, EVEN)

Bachelor of Science (B.S.) Degree with Major in Biochemistry

Sample Four-Year Plan Starting in Even Year

First Year Fall (Even Year)

BBL	1023	New Testament Survey
CHM	1124	General Chemistry I
COR	1002	Gateway Seminar
EGL	1013	English I: Composition
MTH	1134	Calculus I
Total Hours		16

First Year Spring (Odd Year)

BIO	1124	Cell Biology
CHM	1134	General Chemistry II
EGL	1023	English II: Literary Analysis/Research
MTH	1144	Calculus II
Total Hours		15

Second Year Fall (Odd Year)

BBL	1013	Old Testament Survey
CHM	3134	Organic Chemistry I
HST	2013	Integrated Humanities I
PHY	2114	General Physics I
	___2	Elective
Total Hours		16

Second Year Spring (Even Year)

CHM	3144	Organic Chemistry II
HST	2023	Integrated Humanities II
PHY	2124	General Physics II
	___2	Whole Person Wellness Elective
	___3	Social/Behavioral Sci. (SBS) Elective
Total Hours		16

Third Year Fall (Even Year)

CHM	3114	Advanced Analytical Chemistry†
CHM	3164	Biochemistry I†
	___3	Arts & Humanities (AH) Elective
	___4	Biology/Chemistry Elective
Total Hours		15

Third Year Spring (Odd Year)

BBL	2013	Essentials of Evangelical Theology
CHM	3174	Biochemistry II†
CHM	4144	Physical Chem Quantum†
	___3	Elective
Total Hours		14

Fourth Year Fall (Odd Year)

BBL	2022	Essentials of Christian Formation
BIO	3174	Molecular Cell Biology†
CHM	3183	Advanced Inorganic Chemistry†
	___3	SBS or AH Elective (see above)
	___3	Elective
Total Hours		15

Fourth Year Spring (Even Year) -Major Field Test Exam

BIO	4103	Bioethics (or GSC 4133)
CHM	4501	Chemistry/Biochemistry Capstone
	___3	Intercultural Engagement Elective
	___3	Elective
	___3	Elective
Total Hours		13

Total Hours for Four Years: 120

† Note: The order of alternate year courses will differ depending on whether a student begins their studies at JBU in an even/odd yr.

Biochemistry Electives

BIO 3334 Microbiology (Spring)
 BIO 3524 Human Physiology (Spring)
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