

# 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		

### 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 Fall (Even Year)

BBL	1023	New Testament Survey
CHM	3134	Organic Chemistry I
HST	2013	Integrated Humanities I
PHY	2114	General Physics I
CHM	2131	Introduction to Comp Chem
CHM	2161	Chemical Communication Literacy
Total Hours 16		

### 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 Fall (Odd Year)

BIO	3174	Molecular Cell Biology
CHM	3183	Advanced Inorganic Chemistry
CHM	3121	Integrated Chemistry Lab
BBL	2022	Essentials of Christian Formation
	___3	Biology/Chemistry Elective
	___2	Elective
Total Hours 15		

### Third Year Spring (Even Year)

BBL	2013	Essentials of Evangelical Theology
BIO	4103	Bioethics (or GSC 4133 senior year)
CHM	3121	Integrated Chemistry Lab
	___3	Social/Behavioral Sci. (SBS) Elective
	___3	Elective
	___3	Elective
Total Hours 16		

### Fourth Year Fall (Even Year)

CHM	3114	Advanced Analytical Chemistry
CHM	3163	Biochemistry I
CHM	3121	Integrated Chemistry Lab
	___3	Arts & Humanities (AH) Elective
	___3	SBS or AH Elective (see above)
Total Hours 14		

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

CHM	3173	Biochemistry II
CHM	4501	Chemistry/Biochemistry Capstone
CHM	3121	Integrated Chemistry Lab
	___4	Biochemistry Elective
	___3	Intercultural Engagement Elective
Total Hours 12		

**Total Hours for Four Years: 120**

### Biochemistry Electives

BIO 3334 Microbiology (Spring)	CHM 3151-4 Selected Topics (Request)
BIO 3524 Human Physiology (Spring)	CHM 4221-3 Chemistry Research (Every)
BIO 3614 Virology (Fall, EVEN)	CHM 4310 Chemistry Internship (Every)
BIO 4221-3 Biological Research (Every)	CHM 4123 Phys Chem Thermodynamics (Spring, EVEN)
CHM 2131 Introduction to Computational Chemistry	CHM 4133 Phys Chem Quantum (Spring, ODD)

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

## Sample Four-Year Plan Starting in Even Year

### First Year Fall (Even 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

### 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	1023	New Testament Survey
CHM	3134	Organic Chemistry I
HST	2013	Integrated Humanities I
PHY	2114	General Physics I
CHM	2131	Introduction to Comp Chem
CHM	2161	Chemical Communication Literacy
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	3163	Biochemistry I
CHM	3121	Integrated Chemistry Lab
BBL	2022	Essentials of Christian Formation
	__3	Biochemistry Elective
	__3	Elective
Total Hours		16

### Third Year Spring (Odd Year)

BBL	2013	Essentials of Evangelical Theology
CHM	3173	Biochemistry II
CHM	3121	Integrated Chemistry Lab
	__3	Biochemistry Elective
	__3	Elective
Total Hours		13

### Fourth Year Fall (Odd Year)

BIO	3174	Molecular Cell Biology
CHM	3183	Advanced Inorganic Chemistry
CHM	3121	Integrated Chemistry Lab
	__3	Arts & Humanities (AH) Elective
	__3	SBS or AH Elective (see above)
Total Hours		14

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

BIO	4103	Bioethics (or GSC 4133)
CHM	4501	Chemistry/Biochemistry Capstone
CHM	3121	Integrated Chemistry Lab
	__3	Intercultural Engagement Elective
	__3	Elective
	__3	Elective
Total Hours		14

**Total Hours for Four Years: 120**

### Biochemistry Electives

BIO 3334 Microbiology (Spring)	CHM 3151-4 Selected Topics (Request)
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