

# Bachelor of Arts (B.A.) Degree with Major in Chemistry

## 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	1123	Survey of Calculus
Total Hours 15		

### First Year Spring (Even Year)

BBL	1023	New Testament Survey
BIO	1124	Cell Biology
CHM	1134	General Chemistry II
EGL	1023	English II: Literary Analysis/Research
	__2	Whole Person Wellness Elective
Total Hours 16		

### Second Year Fall (Even Year)

CHM	3134	Organic Chemistry I
HST	2013	Integrated Humanities I
PHY	1114	Fundamental of Physics I
	__3	Social/Behavioral Sci. (SBS) Elective
	__2	Elective
Total Hours 16		

### Second Year Spring (Odd Year)

CHM	3144	Organic Chemistry II
HST	2023	Integrated Humanities II
MTH	2103	Applied Statistics for Scientists
PHY	1124	Fundamental of Physics II
	__2	Elective
Total Hours 16		

### Third Year Fall (Odd Year)

BIO/CHM	__4	Chemistry BA Elective
LS	__3	Foreign Language
	__3	Arts & Humanities (AH) Elective
	__3	Intercultural Engagement Elective
	__3	Elective
Total Hours 16		

### Third Year Spring (Even Year)

BBL	2013	Essentials of Evangelical Theology
BIO/CHM	__4	Chemistry BA Elective
LS	__3	Foreign Language
	__3	Elective
Total Hours 13		

### Fourth Year Fall (Even Year)

BBL	2022	Essentials of Christian Formation
CHM	3114	Advanced Analytical Chemistry†
LS	__3	Foreign Language
	__3	SBS or AH Elective (see above)
	__3	Elective
Total Hours 15		

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

CHM	4223	Chemistry Research
CHM	4501	Chemistry/Biochemistry Capstone
GSC	4133	Faith and Science
	__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 @ JBU in an even/ odd year.

### Chemistry BA Electives

BIO 2174 Genetics (Spring)  
 BIO 3174 Molecular Cell Biology (Fall)  
 BIO 3334 Microbiology (Spring)

BIO 3524 Human Physiology (Spring)  
 BIO 3614 Virology (Fall, EVEN)  
 CHM 3164 Biochemistry I (Fall)

# Bachelor of Arts (B.A.) Degree with Major in Chemistry

## 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	1123	Survey of Calculus

Total Hours 15

### First Year Spring (Odd Year)

BBL	1023	New Testament Survey
BIO	1124	Cell Biology
CHM	1134	General Chemistry II
EGL	1023	English II: Literary Analysis/Research
	___2	Whole Person Wellness Elective

Total Hours 16

### Second Year Fall (Odd Year)

CHM	3134	Organic Chemistry I
HST	2013	Integrated Humanities I
PHY	1114	Fundamental of Physics I
	___3	Social/Behavioral Sci. (SBS) Elective

Total Hours 14

### Second Year Spring (Even Year)

CHM	3144	Organic Chemistry II
HST	2023	Integrated Humanities II
MTH	2103	Applied Statistics for Scientists
PHY	1124	Fundamental of Physics II

Total Hours 14

### Third Year Fall (Even Year)

CHM	3114	Advanced Analytical Chemistry†
BIO/CHM	___4	Chemistry BA Elective
LS	___3	Foreign Language
	___3	Arts & Humanities (AH) Elective
	___2	Elective

Total Hours 16

### Third Year Spring (Odd Year)

BBL	2013	Essentials of Evangelical Theology
BIO/CHM	___4	Chemistry BA Elective
LS	___3	Foreign Language
	___3	Elective
	___3	Elective

Total Hours 16

### Fourth Year Fall (Odd Year)

BBL	2022	Essentials of Christian Formation
LS	___3	Foreign Language
	___3	SBS or AH Elective
	___3	Elective
	___3	Elective
	___2	Elective

Total Hours 16

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

BIO	4103	Bioethics (or GSC 4133)
BIO	4501	Chemistry/Biochemistry Capstone
CHM	4223	Chemistry Research
	___3	Intercultural Engagement 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 @ JBU in an even/ odd year.

### Chemistry BA Electives

BIO 2174 Genetics (Spring)  
 BIO 3174 Molecular Cell Biology (Fall)  
 BIO 3334 Microbiology (Spring)

BIO 3524 Human Physiology (Spring)  
 BIO 3614 Virology (Fall, EVEN)  
 CHM 3164 Biochemistry I (Fall)