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

Sample Four-Year Plan Starting in Odd Year

First Year Fall (Odd Year)			First Year Spring (Even Year)			
BBL	1013	Old Testament Survey	BBL	1023	New Testament Survey	
CHM	1124	General Chemistry I	CHM	1134	General Chemistry II	
COR	1002	Gateway Seminar	EGL	1023	English II: Literary Analysis/Research	
EGL	1013	English I: Composition	MTH	1144	Calculus II	
MTH	1134	Calculus I				
Total Hours 16			Total Hours 14			
Second Year Fall (Even Year)			Second Year Spring (Odd Year)			
CHM	3134	Organic Chemistry I	CHM	3144	Organic Chemistry II	
HST	2013	Integrated Humanities I	HST	2023	Integrated Humanities II	
PHY	2114	General Physics I	MTH	2103	Applied Statistics for Scientists	
	3	Social/Behavioral Sci. (SBS) Elective	PHY	2124	General Physics II	
				2	Whole Person Wellness Elective	
Total	Hours 1	4	Total Hours 16			
	Third Year Fall (Odd Year)					
Third \	ear Fall	(Odd Year)	Third `	Year Spr	ing (Even Year)	
Third \		(Odd Year) Advanced Inorganic Chemistry†	Third `	Year Spr 2013	ing (Even Year) Essentials of Evangelical Theology	
	3183			-		
CHM	3183 4	Advanced Inorganic Chemistry†	BBL	2013	Essentials of Evangelical Theology	
CHM	3183 4	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective	BBL CHM	2013 4124 3 3	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic†	
CHM CHIM	3183 4 3 3 3	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective	BBL CHM CHM	2013 4124 3 3 2	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective	
CHM CHIM	3183 4 3 3	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective	BBL CHM CHM	2013 4124 3 3	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective	
CHM CHIM	3183 4 3 3 3	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective	BBL CHM CHM	2013 4124 3 3 2	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective	
CHM CHIM To	3183 4 3 3 3 tal Hour	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective	BBL CHM CHM	2013 4124 3 3 2 otal Hour	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective	
CHM CHIM To	3183 4 3 3 3 tal Hour	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective s 16	BBL CHM CHM	2013 4124 3 3 2 otal Hour	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective s 15 pring (Odd Year) — Major Field Test Exam Physical Chemistry-Quantum†	
CHM CHIM	3183 4 3 3 3 tal Hour	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective s 16	BBL CHM CHM To	2013 4124 3 3 2 tal Hour	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective s 15 pring (Odd Year) — Major Field Test Exam Physical Chemistry-Quantum† Chemistry/Biochemistry Capstone	
CHM CHIM To	3183 4 3 3 tal Hour • Year Fa 2022	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective s 16 all (Even Year) Essentials of Christian Formation	BBL CHM CHM To Fourth	2013 4124 3 3 2 otal Hour 1 Year Sp 4134	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective s 15 pring (Odd Year) — Major Field Test Exam Physical Chemistry-Quantum†	
CHM CHIM To	3183 4 3 3 tal Hour Year Fa 2022 3114	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective s 16 All (Even Year) Essentials of Christian Formation Advanced Analytical Chemistry†	BBL CHM CHM To Fourth CHM	2013 4124 3 2 tal Hour 1 Year Sp 4134 4501 4133 3	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective s 15 pring (Odd Year) – Major Field Test Exam Physical Chemistry-Quantum† Chemistry/Biochemistry Capstone Faith and Science Elective	
CHM CHIM To Fourth BBL CHM	3183 4 3 3 tal Hour • Year Fa 2022 3114 3 3 3	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective s 16 All (Even Year) Essentials of Christian Formation Advanced Analytical Chemistry† SBS or AH Elective (see above) Elective Elective	BBL CHM CHM To Fourth CHM CHM GSC	2013 4124 3 2 otal Hour • Year Sp 4134 4501 4133 3 3	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective Elective s 15 pring (Odd Year) — Major Field Test Exam Physical Chemistry-Quantum† Chemistry/Biochemistry Capstone Faith and Science Elective Elective	
CHM CHIM To Fourth BBL CHM	3183 4 3 3 tal Hour • Year Fa 2022 3114 3 3	Advanced Inorganic Chemistry† Chemistry Elective Arts & Humanities (AH) Elective Intercultural Engagement Elective Elective s 16 All (Even Year) Essentials of Christian Formation Advanced Analytical Chemistry† SBS or AH Elective (see above) Elective Elective	BBL CHM CHM To Fourth CHM CHM GSC	2013 4124 3 2 tal Hour 1 Year Sp 4134 4501 4133 3	Essentials of Evangelical Theology Physical Chemistry-Thermodynamic† Elective Elective S 15 Pring (Odd Year) — Major Field Test Exam Physical Chemistry-Quantum† Chemistry/Biochemistry Capstone Faith and Science Elective Elective	

Total Hours for Four Years: 120

Chemistry Electives

CHM 1101 Chemistry Practicum (Request)
CHM 3101 Chemistry Practicum: Teaching (Request)
CHM 3164 Biochemistry I (Fall)
CHM 3174 Biochemistry II (Spring, ODD)

CHM 4221-3 Chemistry Research (Every)
CHM 4310
Chemistry Internship (Every)
RE 3124
Bio-Fuels & Biomass

Revised: 2/21/19 Susan Newton

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

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

Sample Four-Year Plan Starting in Even Year

First Vasa Consider (Odd Vasa)

First Year Fall (Even Year)			First Year Spring (Odd Year)			
BBL	1013	Old Testament Survey	BBL	1023	New Testament Survey	
CHM	1124	General Chemistry I	CHM	1134	General Chemistry II	
COR	1002	Gateway Seminar	EGL	1023	English II: Literary Analysis/Research	
EGL	1013	English I: Composition	MTH	1144	Calculus II	
MTH	1134	Calculus I		2	Whole Person Wellness Elective	
Total Hours 16			Total Hours 16			
Second Year Fall (Odd Year)			Second Year Spring (Even Year)			
CHM	3134	Organic Chemistry I	CHM	3144	Organic Chemistry II	
HST	2013	Integrated Humanities I	HST	2023	Integrated Humanities II	
PHY	2114	General Physics I	MTH	2103	Applied Statistics for Scientists	
	3	Social/Behavioral Sci. (SBS) Elective	PHY	2124	General Physics II	
Total Hours 14			Total Hours 14			
Third Year Fall (Even Year)			Third Year Spring (Odd Year)			
СНМ	3114	Advanced Analytical Chemistry†	BBL	2013	Essentials of Evangelical Theology	
СНМ	4	Chemistry Elective	CHM	4134	Physical Chemistry-Quantum†	
	3	Arts & Humanities (AH) Elective		4	Elective	
	3	Elective		3	Elective	
	2	Elective		2	Elective	
Total Hours 16			Total Hours 16			
Fourth Year Fall (Odd Year)			Fourth Year Spring (Even Year) — Major Field Test Exam			
BBL	2022	Essentials of Christian Formation	BIO	4103	Bioethics (or GSC 4133)	
CHM	3183	Advanced Inorganic Chemistry†	BIO	4501	Chemistry/Biochemistry Capstone	
	3	SBS or AH Elective (see above)	CHM	4124	Physical Chemistry-Thermodynamic†	
	3	Elective		3	Intercultural Engagement Elective	
	3	Elective		3	Elective	
Total Hours 14			Total Hours 14			

Total Hours for Four Years: 120

Chemistry Electives

CHM 1101 Chemistry Practicum (Request)

CHM 4221-3 Chemistry Research (Every)

CHM 3101 Chemistry Practicum: Teaching (Request)

CHM 4310 Chemistry Internship (Every)

CHM 3164 Biochemistry I (Fall)

CHM 3174 Biochemistry II (Spring, ODD)

Revised: 2/21/19 Susan Newton

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