

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	1123	General Chemistry I
CHM	1121	General Chemistry I: Lab
COR	1002	Gateway Seminar
EGL	1013	English I: Composition
MTH	1163	Calculus I

Total Hours 15

First Year Spring (Even Year)

BBL	1023	New Testament Survey
BIO	1123	Cell Biology
BIO	1121	Cell Biology: Lab
CHM	1133	General Chemistry II
CHM	1131	General Chemistry II: Lab
EGL	1023	English II: Literary Analysis/Research
___2		Whole Person Wellness Elective

Total Hours 16

Second Year Fall (Even Year)

CHM	3133	Organic Chemistry I
CHM	3131	Organic Chemistry I: Lab
HST	2013	Integrated Humanities I
PHY	1113	Fundamental of Physics I
PHY	1111	Fundamental of Physics I: Lab
BBL	2022	Essentials of Christian Formation
CHM	2131	Introduction to Comp Chem

Total Hours 14

Second Year Spring (Odd Year)

CHM	3143	Organic Chemistry II
CHM	3141	Organic Chemistry II: Lab
HST	2023	Integrated Humanities II
MTH	2103	Applied Statistics for Scientists
PHY	1123	Fundamental of Physics II
PHY	1121	Fundamental of Physics II: Lab
___2		Elective

Total Hours 16

Third Year Fall (Odd Year)

BIO/CHM__4		Chemistry BA Elective
CHM	3121	Integrated Chemistry Lab
LS	___3	Foreign Language
___3		Arts & Humanities (AH) Elective
___3		Intercultural Engagement Elective

Total Hours 14

Third Year Spring (Even Year)

BBL	2013	Essentials of Evangelical Theology
CHM	3121	Integrated Chemistry Lab
CHM	4223	Chemistry Research
LS	___3	Foreign Language
___3		Elective
___2		Elective

Total Hours 15

Fourth Year Fall (Even Year)

CHM	2161	Chemical Communication Literacy
CHM	3112	Advanced Analytical Chemistry
CHM	3012	Advanced Analytical Chemistry: Lab
CHM	3121	Integrated Chemistry Lab
LS	___3	Foreign Language
___3		Social/Behavioral Sci. (SBS) Elective
___3		SBS or AH Elective (see above)

Total Hours 15

Fourth Year Spring (Odd Year)

CHM	4501	Chemistry/Biochemistry Capstone
BIO/CHM__4		Chemistry BA Elective
GSC	4133	Faith and Science
CHM	3121	Integrated Chemistry Lab
CHM	4000	Standard Exam
LS	___3	Foreign Language
___3		Elective

Total Hours 15

Total Hours for Four Years: 120

Chemistry BA Electives

BIO 2173 Genetics (Spring)
 BIO 3173 Molecular Cell Biology (Fall)
 BIO 3333 Microbiology (Spring)

BIO 3523 Human Physiology (Spring)
 BIO 3613 Virology (Fall, EVEN)
 CHM 3163 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	1123	General Chemistry I
CHM	1121	General Chemistry I: Lab
COR	1002	Gateway Seminar
EGL	1013	English I: Composition
MTH	1163	Calculus I

Total Hours 15

First Year Spring (Odd Year)

BBL	1023	New Testament Survey
BIO	1123	Cell Biology
BIO	1121	Cell Biology: Lab
CHM	1133	General Chemistry II
CHM	1131	General Chemistry II: Lab
EGL	1023	English II: Literary Analysis/Research

___2 Whole Person Wellness Elective

Total Hours 16

Second Year Fall (Odd Year)

CHM	3133	Organic Chemistry I
CHM	3131	Organic Chemistry I: Lab
HST	2013	Integrated Humanities I
PHY	1113	Fundamental of Physics I
PHY	1111	Fundamental of Physics I: Lab
BBL	2022	Essentials of Christian Formation
CHM	2131	Introduction to Comp Chem

Total Hours 14

Second Year Spring (Even Year)

CHM	3143	Organic Chemistry II
CHM	3141	Organic Chemistry II: Lab
HST	2023	Integrated Humanities II
MTH	2103	Applied Statistics for Scientists
PHY	1123	Fundamental of Physics II
PHY	1121	Fundamental of Physics II: Lab

Total Hours 14

Third Year Fall (Even Year)

CHM	2161	Chemical Communication Literacy
CHM	3112	Advanced Analytical Chemistry
CHM	3012	Advanced Analytical Chemistry: Lab
BIO/CHM	__4	Chemistry BA Elective
CHM	3121	Integrated Chemistry Lab
LS	__3	Foreign Language
__3		Arts & Humanities (AH) Elective

Total Hours 16

Third Year Spring (Odd Year)

BBL	2013	Essentials of Evangelical Theology
CHM	3121	Integrated Chemistry Lab
CHM	4223	Chemistry Research
LS	__3	Foreign Language
__3		Elective
__2		Elective

Total Hours 15

Fourth Year Fall (Odd Year)

CHM	3121	Integrated Chemistry Lab
LS	__3	Foreign Language
__3		Social/Behavioral Sci. (SBS) Elective
__3		SBS or AH Elective
__3		Elective
__2		Elective

Total Hours 15

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

BIO	4103	Bioethics (or GSC 4133)
BIO	4501	Chemistry/Biochemistry Capstone
BIO/CHM	__4	Chemistry BA Elective
CHM	3121	Integrated Chemistry Lab
CHM	4000	Standard Exam
LS	__3	Foreign Language
__3		Intercultural Engagement Elective

Total Hours 15

Total Hours for Four Years: 120

Chemistry BA Electives

BIO 2173 Genetics (Spring)
 BIO 3173 Molecular Cell Biology (Fall)
 BIO 3333 Microbiology (Spring)

BIO 3523 Human Physiology (Spring)
 BIO 3613 Virology (Fall, EVEN)
 CHM 3163 Biochemistry I (Fall)