# 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

### 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

### 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

### 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

### 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 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 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 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)

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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)

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