# 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**

### 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

**Total Hours 14**

### 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**

### 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**

### 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 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 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 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
- **___3** Elective

**Total Hours 15**

**Total Hours for Four Years: 121**

### Biochemistry Electives

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

*Revised: 4/6/22 SQN*
# 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

### 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

**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

**Total Hours:** 16

### Fourth Year Fall (Odd Year)
- **BIO** 3174 Molecular Cell Biology
- **CHM** 3183 Advanced Inorganic Chemistry
- **CHM** 3121 Integrated Chemistry Lab

**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 Spring (Even Year)
- **CHM** 3144 Organic Chemistry II
- **HST** 2023 Integrated Humanities II
- **PHY** 2124 General Physics II

**Total Hours:** 16

### Third Year Spring (Odd Year)
- **BBL** 2013 Essentials of Evangelical Theology
- **CHM** 3173 Biochemistry II
- **CHM** 3121 Integrated Chemistry Lab

**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

**Total Hours:** 14

### Total Hours for Four Years: 121

## Biochemistry Electives

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