

BACHELOR OF SCIENCE IN BIOCHEMISTRY (PRE-HEALTH MAJORS)

Web Site: <https://twu.edu/chemistry-biochemistry/undergraduate-programs/bs-in-biochemistry-for-pre-health-majors/>

Recommended Plan of Study

First Year

| Fall | | TCCN | SCHs |
|------------------------|--|---------------------------------|------|
| CHEM 1001 | Horizons of Chemistry and Biochemistry I: Career Possibilities | | 1 |
| CHEM 1213 & CHEM 1211 | Principles of Chemistry I and Principles of Chemistry Laboratory I | | 4 |
| MATH 2014 | Calculus I | MATH 2413 | 4 |
| BIOL 1113 & BIOL 1111 | Principles of Biology I and Principles of Biology I Laboratory | BIOL 1406 & BIOL 1106 | 4 |
| UNIV 1231 | Learning Frameworks: The First Year Experience | EDUC 1100, EDUC 1200, EDUC 1300 | 1 |
| Wellness/Math CAO Core | | | 2 |

| Spring | | TCCN | SCHs |
|--|--|-----------------------|------|
| CHEM 1101 | Horizons of Chemistry and Biochemistry II: Current Applications | | 1 |
| CHEM 1223 & CHEM 1221 | Principles of Chemistry II and Principles of Chemistry Laboratory II | | 4 |
| MATH 2024 or 4013 | Calculus II or Probability and Statistics | MATH 2414 | 4 |
| BIOL 1123 & BIOL 1121 | Principles of Biology II and Principles of Biology II Laboratory | BIOL 1407 & BIOL 1107 | 4 |
| Multicultural Women's Studies CAO Core | | | 3 |

Second Year

| Fall | | TCCN | SCHs |
|-----------------------|--|-----------------------|------|
| CHEM 2213 & CHEM 2211 | Organic Chemistry I and Organic Chemistry Laboratory I | CHEM 2323 & CHEM 2123 | 4 |
| PHYS 2153 & PHYS 2151 | General Physics I and General Physics Laboratory I | PHYS 2325 & PHYS 2125 | 4 |
| HIST 1013 | History of the United States, 1492-1865 | HIST 1301 | 3 |
| ENG 1013 | Composition I | ENGL 1301 | 3 |

| Spring | | TCCN | SCHs |
|-----------------------|--|-----------------------|------|
| CHEM 3223 & CHEM 3221 | Organic Chemistry II and Organic Chemistry Laboratory II | | 4 |
| PHYS 2163 & PHYS 2161 | General Physics II and General Physics Laboratory II | PHYS 2326 & PHYS 2126 | 4 |

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| ENG 1023 | Composition II | ENGL 1302 | 3 |
| CHEM 3333 & CHEM 3331 | Quantitative Chemical Analysis and Quantitative Chemical Analysis Laboratory | | 4 |

SCHs 15

Third Year

| Fall | | TCCN | SCHs |
|-----------------------|--|-----------|------|
| CHEM 3633 & CHEM 3632 | Biochemistry I and Biochemistry I Laboratory | | 5 |
| BIOL 3XXX or 4XXX | | | 4 |
| POLS 2013 | U.S. National Government | GOVT 2305 | 3 |
| Elective | | | 4 |

SCHs 16

| Spring | | TCCN | SCHs |
|---------------------------------------|--|-----------|------|
| CHEM 3313 | Physical Chemistry for the Life Sciences | | 3 |
| CHEM 3643 | Biochemistry II | | 3 |
| CHEM 4983 | Undergraduate Research | | 3 |
| Elective (Global Perspectives course) | | | 3 |
| POLS 2023 | Texas Government | GOVT 2306 | 3 |

SCHs 15

Fourth Year

| Fall | | TCCN | SCHs |
|--|------------------------|------|------|
| Elective | | | 3 |
| CHEM 4983 | Undergraduate Research | | 3 |
| Creative Arts Core | | | 3 |
| Language, Philosophy, and Culture Core | | | 3 |
| Elective | | | 2 |

SCHs 14

| Spring | | TCCN | SCHs |
|----------------------------------|--|-----------|------|
| CHEM 4001 | Research Presentations in Chemistry and Biochemistry | | 1 |
| HIST 1023 | History of the United States, 1865 to the Present | HIST 1302 | 3 |
| Elective - Upper Level | | | 4 |
| Elective | | | 3 |
| Social & Behavioral Science Core | | | 3 |

SCHs 14

Total SCHs: 120