

COLLEGE OF ARTS & SCIENCES
2026-2027 CHEMISTRY
B.S. DEGREE PLAN

FIRST YEAR - FRESHMAN

| Fall Semester | | | | Spring Semester | | | |
|---------------|-------|--------------------------------------|-------------|-----------------|-------|-------------------------------------|-----------|
| Dept. | Crse# | Course Name | Hrs. | Dept. | Crse# | Course Name | Hrs. |
| MAT | 120 | Precalculus ² | 4 | MAT | 122 | Analytics & Calculus I | 5 |
| CHE | 121 | General Chemistry I | 3 | CHE | 122 | General Chemistry II | 3 |
| CHE | 121L | General Chemistry I Lab | 1 | CHE | 122L | General Chemistry II Lab | 1 |
| ENG | 101 | English Composition I ¹ | 3 | ENG | 102 | English Composition II ¹ | 3 |
| BPH | 100 | Special Topics in Science | 0.5 | BIB | 122 | Acts of the Apostles ¹ | 2 |
| BIB | 121 | Life of Christ ¹ | 2 | | | | |
| | | Other minor requirement ⁶ | 3 | | | | |
| | | | 16.5 | | | | 14 |

SECOND YEAR - SOPHOMORE

| Fall Semester | | | | Spring Semester | | | |
|---------------|-------|--|-------------|-----------------|-------|--|-----------|
| Dept. | Crse# | Course Name | Hrs. | Dept. | Crse# | Course Name | Hrs. |
| MAT | 223 | Analytics & Calculus II ⁵ | 4 | | | Behavioral Science Elective ¹ | 3 |
| PHS | 211 | Physics for Science & Engineering I ⁴ | 4 | PHS | 212 | Physics for Science & Engin. II ² | 4 |
| CHE | 321 | Organic Chemistry I | 4 | CHE | 322 | Organic Chemistry II | 4 |
| BIO | 205 | Cell Biology ⁶ | 3 | | | Other minor requirement ⁶ | 3 |
| BPH | 200 | Special Topics in Science | 0.5 | BIB | | Bible | 2 |
| BIB | | Bible | 2 | | | | |
| | | | 17.5 | | | | 16 |

THIRD YEAR - JUNIOR

| Fall Semester | | | | Spring Semester | | | |
|---------------|--------|---|-----------|-----------------|-------|--------------------------------------|-----------|
| Dept. | Crse# | Course Name | Hrs. | Dept. | Crse# | Course Name | Hrs. |
| HIS | | History Elective ¹ | 3 | CHE | 221 | Analytical Chemistry ⁵ | 4 |
| CHE | 331 | Biochemistry I ⁶ | 4 | CHE | 332 | Biochemistry II ⁶ | 4 |
| BIO | 333 | Cell Biology & Molec. Genetics ⁶ | 4 | COM | 140 | Speech Communication ¹ | 3 |
| | | Other minor requirement ⁸ | 3 | BPH | 300 | Special Topics in Science | 1 |
| BIB | (4)346 | Christ. Evid./Foundations of Faith ¹ | 3 | | | Other minor requirement ⁸ | 3 |
| | | | | BIB | | Bible | 3 |
| | | | 17 | | | | 18 |

FOURTH YEAR - SENIOR

| Fall Semester | | | | Spring Semester | | | |
|---------------|-------|---|-----------|-----------------|-------|---|-----------|
| Dept. | Crse# | Course Name | Hrs. | Dept. | Crse# | Course Name | Hrs. |
| CHE | 421 | Quantum Chemistry ^{5,7} | 4 | CHE | 422 | Kinetics & Thermodynamics ^{5,7} | 4 |
| | | Critical/Creative Works ¹ | 3 | CHE | | UD Chem. Elective (or Bio) ³ | 4 |
| CHE | | Upper division Chem. Elective (or Bio) ³ | 4 | BIO | 444 | Biological Concepts of Origins | 3 |
| | | Other minor requirement ⁸ | 3 | BPH | 400 | Science Seminar | 1 |
| BIB | | Bible | 2 | | | Other minor requirement ⁸ | 3 |
| | | | | BIB | 495 | Values in Human Tht & Action ^{1,3} | 3 |
| | | | 16 | | | | 18 |

¹Liberal Arts Core Requirement

²Liberal Arts Core Requirements in *Undergraduate Catalog*

³Course has prerequisite. See corresponding *Undergraduate Catalog*

⁴Can be replaced with General Physics for biochemistry track majors

⁵Required only for chemistry track

⁶Required only for biochemistry track

⁷Only need one for biochemistry track

⁸Options if a student would like a minor

Total

18

ADDITIONAL ITEMS RELATED TO THE MAJOR

*Students may substitute MAT 224 Analytics and Calculus III or upper-division mathematics courses for up to four (4) of the additional required credit hours.

Students may also use CHE 498 or HON 498 Independent Study (must be chemistry or biology related) for up to three (3) of the additional required credit hours. Students completing the pre-engineering program may count ENS 231 Engineering Mechanics I and ENS 232 Engineering Mechanics II toward meeting the seven (7) chemistry elective hours.

The following guidelines are important. Failure to follow these guidelines may delay graduation.

1. Plan schedules carefully. Plan to fulfill prerequisites for future courses.
2. Do not alter the sequence of courses without consulting with your academic adviser as not all classes are offered every semester.
3. Before the enrollment period, check to make sure holds will not prevent you from registering.
4. Register for classes early during the registration period to secure classes.

The Four-Year Degree Plan is a suggested plan of study. This plan does not replace the *Undergraduate Catalog*. The *Undergraduate Catalog* provides the official listing of program requirements.

2026-2027 Undergraduate Liberal Arts Core Requirements

| I. Biblical Values | III. Broadened Perspectives |
|--|---|
| A. Bible | A. Behavioral Sciences |
| BIB 121 & 122 & 346 OR 446 7 | BIB/FAM 230 OR PSY 210 OR SOC 241 OR SWK 251 3 |
| II. Basic Skills | B. Natural Sciences |
| A. Written Communication | BIO 100 OR BIO 105 OR BIO 110 OR BIO 111 OR BIO 112 OR BIO 211 OR CHE 121 OR PHS 111 OR PHS 112 OR PHS 201 OR PHS 211 3 |
| ENG 101 AND ENG 102 6 | |
| B. Oral Communication | C. Arts and Humanities |
| COM 140 3 | HISTORY: HIS 111 OR HIS 112 OR HIS 221 OR HIS 222 OR HUM 399A OR POL 3 |
| C. Quantitative Reasoning | CRITICAL AND CREATIVE WORKS: 3 |
| MAT 100 OR MAT 101 OR MAT 120 OR MAT 122 OR MAT235 3 | ART 110 OR ART 201 OR ART 234 OR ENG 215 OR ENG 225 OR ENG 235 OR ENG 299A/399A OR MUS 110 OR MUS 214 OR PHI 243 OR PHI 245 OR PHI 246 OR THE 160 OR THE 265 OR THE 299A/399A 3 |
| <i>Complete course names and descriptions for the Liberal Arts Core Requirements are located in the Undergraduate Catalog.</i> | HUMANITIES CAPSTONE: BIB/HUM 495 3 |
| | Total 34 |