

**SUGGESTED FOUR-YEAR PLAN OF STUDY FOR THE CHEMISTRY MAJOR
B.S. with Chemistry Concentration (ACS approved) and Pre-Med Emphasis****FRESHMAN YEAR**

| <i>Fall Semester (16 SH)</i> | | | SH | <i>Spring Semester (16 SH)</i> | | | SH |
|------------------------------|-------|----------------------------------|----|--------------------------------|-------|-----------------------------------|----|
| CHM | 1310G | General Chemistry I | 3 | CHM | 1410 | General Chemistry II | 3 |
| CHM | 1315G | General Chemistry Laboratory I | 1 | CHM | 1415 | General Chemistry Laboratory II | 1 |
| ENG | 1001G | Composition and Language | 3 | ENG | 1002G | Composition and Literature | 3 |
| PHY | 1351G | General Physics I | 3 | PHY | 1361 | General Physics II | 3 |
| PHY | 1352G | General Physics I Laboratory | 1 | PHY | 1362 | General Physics II Laboratory | 1 |
| MAT | 1441G | Calculus and Analytic Geometry I | 5 | MAT | 2442 | Calculus and Analytic Geometry II | 5 |

SOPHOMORE YEAR

| <i>Fall Semester (15 SH)</i> | | | SH | <i>Spring Semester (14 SH)</i> | | | SH |
|------------------------------|------|-----------------------------------|----|--------------------------------|-------|---------------------------------|----|
| CHM | 2440 | Organic Chemistry I | 3 | * CHM | 2310 | Inorganic Chemistry I | 3 |
| CHM | 2445 | Organic Chemistry Laboratory I | 1 | CHM | 2840 | Organic Chemistry II | 3 |
| CHM | 2730 | Quantitative Analysis | 3 | CHM | 2845 | Organic Chemistry Laboratory II | 1 |
| * CHM | 3500 | Introduction to Chemical Research | 1 | CMN | 1310G | Intro to Speech Communication | 3 |
| BIO | 1100 | General Biology | 4 | BIO | 1300G | Animal Diversity | 4 |
| | | General Education Elective | 3 | | | | |

JUNIOR YEAR

| <i>Fall Semester (15 - 16 SH)</i> | | | SH | <i>Spring Semester (15 - 17 SH)</i> | | | SH |
|-----------------------------------|------|------------------------------------|-----|-------------------------------------|------|-------------------------------|-----|
| CHM | 3000 | Chemistry Seminar I | 0 | CHM | 3001 | Chemistry Seminar II | 1 |
| * CHM | 3450 | Biochemistry I | 3 | * CHM | 3915 | Physical Chemistry Laboratory | 2 |
| * CHM | 3780 | Instrumental Analysis | 3 | * CHM | 3920 | Quantum Chemistry | 3 |
| * CHM | 3910 | Chemical Thermodynamics & Kinetics | 3 | | | General Education Electives | 6 |
| | | General Education Elective | 3 | #,≠ | | Electives | 3-5 |
| #,≠ | | Electives | 3-4 | | | | |

SENIOR YEAR

| <i>Fall Semester (14 - 15 SH)</i> | | | SH | <i>Spring Semester (13 - 15 SH)</i> | | | SH |
|-----------------------------------|-------|--|----|-------------------------------------|------|--|----|
| CHM | 4000 | Chemistry Seminar III | 0 | CHM | 4001 | Chemistry Seminar IV | 1 |
| * CHM | 4770 | Molecular Structure | 3 | * CHM | 4915 | OR Inorganic Chemistry Laboratory | 3 |
| * CHM | 4900 | Inorganic Chemistry II | 3 | | | CHM 4905 Advanced Laboratory | 2 |
| * CHM | 4905 | OR Inorganic Chemistry Laboratory | 2 | | | General Education Electives | xx |
| | | CHM 4915 Advanced Laboratory | 3 | #,≠ | | Electives | xx |
| EIU | 40xxG | Senior Seminar | 3 | | | | |
| | | General Education Electives | 3 | | | | |

Minimum Hours Required for Graduation: 120

Forty semester hours of course work numbered 3000 and above are required.

* Offered only during the term listed

Six semester hours of Chemistry electives must be included.

≠ BIO 3200 and BIO 3500 recommended in preparation for medical school.