

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

**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 (17 SH)</i> |       |                                   | SH | <i>Spring Semester (13 - 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  | General Education Elective          |      |                                 | 6-7 |
| CMN                          | 1310G | Intro to Speech Communication     | 3  |                                     |      |                                 |     |
| General Education Electives  |       |                                   | 6  |                                     |      |                                 |     |

**JUNIOR YEAR**

| <i>Fall Semester (15 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 Electives  |      |                                    | 6  | # Electives                         |      |                               | 3-5 |

**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 | <b>OR</b> Inorganic Chemistry Laboratory | 3  |
| * CHM                             | 4900  | Inorganic Chemistry II                   | 3  | CHM                                 | 4905 | Advanced Laboratory                      | 2  |
| * CHM                             | 4905  | <b>OR</b> Inorganic Chemistry Laboratory | 2  | General Education Elective(s)       |      |                                          | xx |
| CHM                               | 4915  | Advanced Laboratory                      | 3  | # Electives                         |      |                                          | xx |
| EIU                               | 40xxG | Senior Seminar                           | 3  |                                     |      |                                          |    |
| General Education Elective        |       |                                          | 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.