

**SUGGESTED FOUR-YEAR PLAN OF STUDY FOR THE CHEMISTRY MAJOR  
B.S. with Chemistry Concentration (Meets ACS certification) 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 (15-18 SH)</i>			SH	<i>Spring Semester (18 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	1500	General Biology I	4	BIO	1550G	General Biology II	4
General Education Elective(s) <sup>a</sup>			3-6	BIO	2210	Anatomy and Physiology I	4

**JUNIOR YEAR**

<i>Fall Semester (17-18 SH)</i>			SH	<i>Spring Semester (13-16 SH)</i>			SH
CHM	3000	Chemistry Seminar I	0	CHM	3001	Chemistry Seminar II	1
* CHM	3450	Biochemistry I	3	* CHM	3460	Biochemistry II	3
* CHM	3910	Chemical Thermodynamics & Kinetics	3	* CHM	3915	Physical Chemistry Laboratory	2
BIO	2220	Anatomy and Physiology II	4	BIO	3200	Genetics	4
BIO	3300	Microbiology	4	General Education Elective <sup>a</sup> or Elective <sup>b</sup>			3-6
General Education Elective <sup>a</sup> or Elective <sup>b</sup>			3-4				

**SENIOR YEAR**

<i>Fall Semester (15-16 SH)</i>			SH	<i>Spring Semester (13 - 16 SH)</i>			SH
CHM	4000	Chemistry Seminar III	0	CHM	4001	Chemistry Seminar IV	1
* CHM	3780	Instrumental Analysis	3	* CHM	3920	Quantum Chemistry	3
* CHM	4900	Inorganic Chemistry II	3	* CHM	4915	Advanced Laboratory	3
BIO	3624	Histology	4	EIU	40xxG	Senior Seminar	3
General Education Elective <sup>a</sup> or Elective <sup>b</sup>			6	General Education Elective <sup>a</sup> or Elective <sup>b</sup>			3-6

**Minimum Hours Required for Graduation: 120**(must include 40 SH of course work numbered  $\geq$  3000)

\* Offered only during the term listed

<sup>a</sup> General Education Electives:

→ In preparation for medical school, it is recommended that two of the Social and Behavioral Sciences General Education courses be PSY 1879G and SOC 1838G, and that one of the Humanities General Education courses be PHI 1000G.

<sup>b</sup> Electives:

→ 5 SH of CHM electives must be included. For ACS certification, electives must include two semester hours of 3000 level or higher chemistry laboratory work. Courses that may be used to satisfy this requirement include CHM 44001-44004, CHM 45551 and 45552, CHM 4770 or CHM 4915.

A statistics course (MAT 2250G) is also suggested.