

**SUGGESTED FOUR-YEAR PLAN OF STUDY FOR THE BIOCHEMISTRY MAJOR  
B.S. in Biochemistry (Meets ACS Certification)****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 (14-17 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	BIO	1550G <sup>a</sup>	General Biology II <sup>a</sup>	4
BIO	1500	General Biology	4			General Education Electives	3-6
CMN	1310G	Intro to Speech Communication	3				

**JUNIOR YEAR**

<i>Fall Semester (16 SH)</i>			SH	<i>Spring Semester (12-15 SH)</i>			SH
CHM	3000	Chemistry Seminar I	0	CHM	3001	Chemistry Seminar II	1
* CHM	3450	Biochemistry I	3	* CHM	3455	Biochemistry Laboratory	2
* CHM	3780	Instrumental Analysis	3	* CHM	3460	Biochemistry II	3
* CHM	3910	Chemical Thermodynamics & Kinetics	3	* CHM	3920 <sup>c</sup>	Quantum Chemistry (or CHM 4900)	0-3
BIO	3200 <sup>b</sup>	Genetics (or BIO 3300 Microbiology)	4			General Education Electives	6
		General Education Electives	3				

**SENIOR YEAR**

<i>Fall Semester (15 SH)</i>			SH	<i>Spring Semester (15 SH)</i>			SH
CHM	4000	Chemistry Seminar III	0	CHM	4001	Chemistry Seminar IV	1
* CHM	4860	Biochemistry III	3	* CHM	3915	Physical Chemistry Laboratory	2
* CHM	4900c	Inorganic Chemistry II (or CHM 3920)	0-3			General Education Elective(s)	6
EIU	40xxG	Senior Seminar	3			Electives <sup>d</sup>	3
		General Education Elective	3-6				
		Electives <sup>d</sup>	3				

\* Offered only during the term listed

**Minimum Hours Required for Graduation: 120**<sup>a</sup> → or other BIO gen ed<sup>b</sup> → either BIO 3200 or BIO 3300 required<sup>c</sup> → CHM 3920 or CHM 4900 required<sup>d</sup> → 5 SH of electives in CHM and/or BIO must be included. BIO courses require approval by your academic advisor. ACS Approval of the degree would necessitate including at least 2 SH of 3000-4000 level CHM lab in the 5 SH of electives. Courses that may be used to satisfy this requirement include Undergraduate Research I-IV: CHM 44001-44004, Honors Research I-II: CHM 45551 and 45552, CHM 4770, or CHM 4915.