

**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 ^a	General Biology II ^a		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 ^c	Quantum Chemistry (or CHM 4900)		0-3
BIO	3200 ^b	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 ^d				3
General Education Elective				3-6					
Electives ^d				3					

* Offered only during the term listed

Minimum Hours Required for Graduation: 120^a → or other BIO gen ed^b → either BIO 3200 or BIO 3300 required^c → CHM 3920 or CHM 4900 required

^d → 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.

