

**SUGGESTED FOUR-YEAR PLAN OF STUDY FOR THE CHEMISTRY MAJOR
B.S. with Biochemistry 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 (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	BIO	2210	Anatomy and Physiology I	4		
BIO	1100 ^a	General Biology	4	BIO	3120	Molecular and Cell Biology	4		
CMN	1310G	Intro to Speech Communication	3	SOC	1838G	Introduction to Sociology	3		
PSY	1879G	Introduction to Psychology	3						

JUNIOR YEAR

<i>Fall Semester (17 SH)</i>				SH	<i>Spring Semester (15-18 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		
BIO	2220	Anatomy and Physiology II	4	* CHM	3460	Biochemistry II	3		
BIO	3200	Genetics	4	BIO	3300	Microbiology	4		
General Education Electives			6	General Education Elective(s)			3		
				Electives ^b			2-3		

SENIOR YEAR

<i>Fall Semester (16-18 SH)</i>				SH	<i>Spring Semester (15 - 18 SH)</i>				SH
CHM	4000	Chemistry Seminar III	0	CHM	4001	Chemistry Seminar IV	1		
* CHM	4860	Biochemistry III	3	EIU	40xxG	Senior Seminar	3		
* CHM	3910	Chemical Thermodynamics & Kinetics	3	* CHM	3915	Physical Chemistry Laboratory	2		
CHM	3780	Instrumental Analysis	3	* CHM	3920	Quantum Chemistry	3		
BIO	3624	Histology	4	General Education Elective(s)			3		
General Education Elective			3	Electives ^b			0-3		
Electives ^b			0-2						

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

* Offered only during the term listed

^a BIO 1100 will be replaced with BIO 1500 in Spring 2017.

^b Electives:

→ 5 SH of electives in CHM and/or in BIO must be included (see allowed list of BIO elective courses in catalog). ACS-Approval would necessitate having at least 2 SH out of the 5 SH include two additional semester hours of 4000-level CHM lab. Courses that may be used to satisfy this lab requirement would be Undergrad. Research (CHM 4400x), Honors Research (CHM 4555x), CHM 4770, or CHM 4915.
→ BIO 3200 or BIO 3300 required