

SUGGESTED **ACCELERATED** 5-YEAR PLAN OF STUDY FOR BS/MS DEGREES  
**B.S. with Biochemistry Concentration (ACS-approved) plus MS Chemistry****FRESHMAN YEAR**

<i>Fall Semester (16 SH)</i>				<i>Spring Semester (16 SH)</i>			
			SH				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>				<i>Spring Semester (16 SH)</i>			
			SH				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	S/B Gen Ed/Diversity			3
◇ BIO	1100	General Biology	4	S/B Gen Ed			3
CMN	1310G	Intro to Speech Communication	3	HUM Gen Ed			3
S/B Gen Ed			3				

**JUNIOR YEAR**

<i>Fall Semester (15 SH)</i>				<i>Spring Semester (18 SH)</i>			
			SH				SH
CHM	3000	Chemistry Seminar I	0	CHM	3001	Chemistry Seminar II	1
* CHM	3780	Instrumental Analysis	3	* CHM	3920	Quantum Chemistry	3
* CHM	3450	Biochemistry I	3	* CHM	3915	Physical Chemistry Lab	2
* CHM	3910	Chemical Thermodynamics & Kinetics	3	H/FA elective( upper division)			3
FA elective (upper division)			3	* CHM	3455	Biochemistry Lab	2
^# Elective			3	* CHM	3460	Biochemistry II	3
				BIO	3200 or 3300	Microbiology or Genetics	4

**SENIOR YEAR**

<i>Fall Semester (UG 13 SH; G 3 SH)</i>				<i>Spring Semester (UG 8SH; G 6 SH)</i>			
			SH				SH
CHM	4000	Chemistry seminar III	0	CHM	4001	Chemistry Seminar IV	1
EIU	41xxG	Senior Seminar	3	# CHM	4400x	Undergrad research (UG CHM elec)	1
CHM	4860	Advanced Biochemistry	3	^# Electives			6
# CHM	4400x	Undergrad research (UG CHM elec)	1	CHM	>4750	Graduate elective	3
^# Electives			3	or CHM	5180	Bioanalytical	} 3
! BIO Gen Ed			3	CHM	5360	Supramolecular Chemistry	
or CHM	5210	Bonding and Reactivity	} 3				
CHM	5420	Modern Organic					

**GRADUATE YEAR → next page**

## GRADUATE YEAR

### **Summer #1 ( 3 SH )**

CHM 5890x Graduate Research 3 SH

### **Fall Semester ( 9 SH )**

CHM >4750 Elective 3 SH

\* CHM 5003 Reading Chemical Literature 1 SH

or CHM 5210 Bonding and Reactivity } 3 SH  
CHM 5420 Modern Organic }

CHM 5890x Graduate Research 1 SH

\* CHM 5002 Intro to Research 1 SH

CHM 5000 Graduate Seminar I 0 SH

### **Spring Semester ( 9 SH )**

CHM 5001 Graduate Seminar II 1 SH

CHM 5950 Thesis 3 SH

or CHM 5180 Bioanalytical } 3 SH  
CHM 5360 Supramolecular Chemistry }

CHM 5890x Graduate Research 2 SH

### **Summer #2 (if necessary)**

CHM 5890x Graduate Research 3 SH

## **NOTES**

\* Only offered in semester listed

### UNDERGRADUATE DEGREE NOTES:

Transfer students should complete Math and Physics requirements during the two years before transferring.

Minimum hours for graduation: 120

◇ BIO 1500 will replace BIO 1100 starting S17.

^ Undergraduate must have 40 hours of coursework numbered 3000 and above

# Five semester hours of Chemistry electives needed, including the two hours of CHM 4400.

! If a waiver to count BIO 1100 as a gen ed course is obtained, an elective may be taken here.

### GRADUATE DEGREE NOTES:

Limit of 9 hours Thesis (5950) and Research (5890)

Graduate students must have 30 hours total with 20 hours at the 5000 level

With advanced permission, nine hours of courses numbered 4750 through 5499 can be carried over from senior year to be counted for graduate credit.