Department of Chemistry and Biochemistry
Eastern Illinois University
Charleston, IL 61920

SUGGESTED ACCELERATED 4 + 1 - PLAN OF STUDY FOR BA/MS DEGREE IN CHEMISTRY

B.A. Chemistry Plus MS Chemistry

FRESHMAN YEAR

	Fall Semester (16 SH)			SH		***Spring Semester (16 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

	Fall Semester (17 SH)			SH		***Spring Semester (16 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
	CMN	1310G	Intro to Speech Communication	3		S/B Gen Ed			3
	S/B Gen Ed			3		FA Gen Ed			3
	BIO Gen Ed			3					

JUNIOR YEAR

	Fall Semester (15 SH)			SH		***Spring Semester (16 SH)***			SH
	CHM	3000	Chemistry Seminar I	0		CHM	3001	Chemistry Seminar II	1
#*	CHM	3450	Biochemistry I	3	#*	CHM	3920	Quantum Chemistry	3
#*	CHM	3910	Chemical Thermodyn. & Kinetics	3	or	CHM elective (UG CHM elective)			
	HUM/FA Gen Ed (upper division)			3		HUM/FA Gen Ed (upper division)			3
#*	CHM	3780	Instrumental (UG CHM elective)	3	^#	Electives			9
^#	Electives			3					

SENIOR YEAR

	Fall Semester (UG 11-14 SH; Shared 3 SH)			SH		***Spring Semester (UG 10-13; Shared 6 SH)***			SH
#	CHM	4400	Undergrad research (UG CHM elective)	1	#	CHM	4400	Undergrad research (UG CHM elective)	1
	EIU	41xxG	Senior Seminar	3		EIU	41xxG	Senior Seminar	3
	CHM	4900	Inorganic II		@	CHM	4915Z	Advanced Laboratory	3
@	CHM	5300Z or 5420Z	Molec Spect or Modern Org	3	@	CHM	5180Z	Bioanalytical or Supramolecular	3
	Electives			10	^#	Electives			9

GRADUATE YEAR

	Summer (3 SH)			SH
	CHM	5890x	Graduate Research	3

	Fall Semester (9 SH)			SH		***Spring Semester (9 SH)***			SH
	CHM	>4750 Elective		3		CHM	5001	Graduate Seminar II	1
*	CHM	5003	Reading Chemical Literature	1		CHM	5950	Thesis	3
	CHM	5300Z or 5420Z	Molec Spect or Modern Org	3		CHM	5360Z	Supramolecular Chemistry or Bioanaly	3
	CHM	5890x	Graduate Research	1		CHM	5890x	Graduate Research	2
*	CHM	5002	Introduction to Research	1					
	CHM	5000	Graduate Seminar I	0					

	SUMMER #2 (if necessary)			SH
	CHM	5890x	Graduate Research	3

NOTES

* Only offered in semester listed

@ Shared credit; B or better grade is necessary to stay in the 4+1 program

UNDERGRADUATE DEGREE NOTES:

Transfer students are reminded that they will need 56 hours earned at a senior institution (4-year school) and 42 hours earned in residence at EIU to complete their BA.

Minimum hours for graduation: 120

^ Undergraduates **must** have 40 hours of coursework numbered 3000 and above.

\# Minimum of **six (6)** semester hours of CHM electives required. The following may not be used as electives: CHM 1040G, 2040G, 3025G, 3200, 4001.
A maximum of three (3) semester hours of CHM 4400 may be used to satisfy this requirement.
For the MS degree, CHM electives must include CHM3780 and two semester hours of CHM4400.
For the MS degree, CHM 3450 and CHM 3910 are required and CHM 3920 is recommended.

$ Students who have completed college-level algebra-based physics courses (*e.g.* PHY 1151G, 1152G, 1161, 1162) should consult the Chemistry Department Chair.

GRADUATE DEGREE NOTES:

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

Graduate must have 30 hours total and 20 hours at the 5000 level

Nine hours of courses numbered 4750 through 5499 can be carried over from senior year to be counted for graduate credit

Rev. 2/26/18