Catalog Year 2018-2019

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

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

B.S. with Chemistry Concentration (ACS-approved) 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		HUM Gen Ed		3
	Bio Gen Ed		3				

JUNIOR YEAR

	Fall Semester (16 SH)		SH		*Spring Semester (15 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		CHM 4400	Undergraduate Research	1
	CHM 4400	Undergraduate Research	1	^#	Electives	(One Hum / FA Gen Ed), Upper division	9
	FA elective (upper division)		3				
^#	Electives		3				

SENIOR YEAR

	Fall Semester (UG 10-13 SH; Shared 3SH)		SH		*Spring Semester (UG 6-14 SH; Shared 6 SH)*		SH
	CHM 4000	Chemistry seminar III	0		CHM 4001	Chemistry Seminar IV	1
	EIU 41xxG	Senior Seminar	3	^#	CHM 4400x	Undergrad research	1
	CHM 4900	Inorganic Chemistry II	3	@	CHM 4915Z or 4900Z	Advanced Laboratory or Inorganic II	3
^#	CHM 4400x	Undergrad research	1	@	CHM 5180Z or 5360Z	Bioanalytical or Supramolecular	3
@	CHM 5300Z or 5420Z	Molec Spect or Modern Org	3	^#	Electives		4-8
	Electives		3-6				

GRADUATE YEAR → *turn page*

GRADUATE YEAR (9 SH from YR 4)

Summer #1 (3 SH)

	CHM 5890x	Graduate Research	3

Fall Semester (9 SH)			SH
	CHM >4750 Elective		0-3
*	CHM 5003	Reading Chemical Literature	1
	CHM 5300Z or 5420Z	Molec Spect or Modern Org	3
	CHM 5890x	Graduate Research	4
*	CHM 5002	Introduction to Research	1
	CHM 5000	Graduate Seminar I	0

Spring Semester (10 SH)			SH
	CHM 5001	Graduate Seminar II	1
	CHM 5950	Thesis	3
	CHM 5360Z	Supramolecular Chemistry or Bio Analyt	3
	CHM 5890x	Graduate Research	0-2
	CHM > 4750	Elective	0-3

Summer #2 (if necessary)

			SH
	CHM 5890x	Graduate Research or Thesis	3

NOTES

* Only offered in semester listed

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

UNDERGRADUATE NOTES

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

Minimum hours for graduation: 120

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

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

GRADUATE NOTES

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

Graduate students must have 30 hours total, with 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