## Suggested Four-Year Plan of Study BIOLOGY AND CHEMISTRY



General Education: MAJ

major and concentration.

There may be major courses that have been

approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by

## Chemistry B.S. with Initial Licensure in Secondary Education (with Minor in Middle School and Secondary Education)

	FRESHMAN YEAR	SOPHMORE YEAR				
Fall Semester		4 Credits	Fall Semester			 15 Credits
CHEM 1300	General Chemistry I*	4	CHEM 2000		ic Chemistry I	4
ENGL 1100	Writing I	3	BIOL 1800	•	•	4
MATH 1300	Precalculus	4	MATH 2400		- · · ·	4
FYE 1015	First Year Experience	3	EDUC 2011			**3
* General Chemistry requires a 'passing' score on Advanced Algebra and Functions Accuplacer placement exam OR successful completion of MATH 0500 (Algebraic Preparation) prior to enrollment. To continue as a Chemistry major, students must earn a grade of 2.0 or higher in General Chemistry I and II.			Spring Semester		14 Credits	
Spring Semester		7 Credits				4
CHEM 1400	General Chemistry II*	-	CHEM 2400		•	y4
ENGL 1200	Writing II		EDUC 2012		•	arner (5-12)**
MATH 2300	Calculus I (QR)				-	
CHEM 1860	Introduction to Education (5-12)**		** These courses are required for completion of the minor in Middle School and Secondal Education. Students must complete this minor for the Initial Licensure in Secondary			
CITEM 1000	Gen Ed/WS		Education. The minor fulfills the Integration requirement for the Chemistry major.			
	CCIT EG/113					
	JUNIOR YEAR		SENIOR YEAR			
Fall Semester 16		6 Credits	Fall Semester			15 Credits
PHYS 2300	General Physics I (PL)	4	CHEM 4850	Methods o	of Teaching Chemistr	/ II** <sub>-</sub> 3
CHEM 3600	Descriptive Inorganic Chemistry	3	EDUC 3122 Sheltered English Immersion		3	
SPED 3800	Inclusive Instruction (5-12)**		CHEM 4750	•		
	Gen Ed/Exploration			Gen Ed/Exploration3		
	Gen Ed/Exploration		(	Gen Ed/Exploration3		
	Gen Ed/Exploration	3				
Spring Semester 17		7 Credits		Spring Semester		12 Credits
CHEM 3200	Physical Chemistry I	4	•	Practicum Seminar		
CHEM 3030	Biochemistry I	3		Practicum in a Secondary School I4.5		
PHYS 2400	General Physics II	4	CHEM 4870	Practicum	in a Secondary Scho	ol II4.5
CHEM 3015	Methods of Teaching Chemistry I**	3				
	Gen Ed/Exploration	3				
		3 credits Civ	General Education: Exploration 3 credits Civic Learning (CV)		General Education: Integration 9 credits AIA (3 of which must be Integrative	
General Education: Foundation 3 credits Reading and Information Literacy (R and IL): First Year Experience			rerse Perspectives (DP)		High Impact Practice - IHIP)  OR  Minor (professional majors completing a minor or second major must include at least 9	
		ρ -	nical Reasoning (ER) e Arts Expression and Anal	vsis (FA)		
3 credits Writing (W): Writing I		-	torical Inquiry and Analysis	, , ,		
3 credits Writing and Information Literacy (W and IL): Writing II		=	erary Inquiry and Analysis (	• ,	credits in LA&S disciplin	es for that minor)

Suggested 4-year plan of study. Completion of 120 credits required for graduation.

3 credits Quantitative Reasoning (QR) (MATH)

3 credits World Languages, Speaking and Listening (WS)

3 credits Literary Inquiry and Analysis (LI)

3 credits Procedural and Logical Thinking (PL)

3 credits Scientific Inquiry and Analysis (SI)

3 credits Personal Wellness (PW)