

# BS: Secondary Education — Chemistry (120 S.H. required to complete the degree)

Name: \_\_\_\_\_ Adviser: \_\_\_\_\_



## General Education Requirements (44 S.H.)

<b>COMMUNICATION SKILLS (3 S.H.)*</b> Choose one of the following: COM 160 Public Speaking*, COM 161 Decision Making in Groups*, COM 162 Interpersonal Communication* or COM 163 Introduction to Communication Skills*		
COM:	3	
<b>WRITING INTENSIVE (W) *</b> All students must complete at least one writing intensive course. W courses can be found in several disciplines. The credits will be counted in the discipline associated with the course. <i>NOTE: WRT101 does not satisfy the writing intensive requirement.</i>		
Writing Intensive*	Y/N	
<b>FOREIGN LANGUAGE</b> All majors must complete a foreign language requirement. This may be done by completing a language at an elementary II level or above. Students who have completed three years of language in high school with at least a C average have satisfied this requirement. (For more info, click the link above.)		
Foreign Language Requirement Met?	Y/N	
<b>HUMANITIES (15 S.H.)</b> Including 3 of 7 categories: Fine and Applied Arts ( <i>NOTE: only one studio course accepted toward minimum</i> ), Communication, Literature, Humanistic Studies, Philosophy, History, and Foreign Language. <b>NOTE: You must complete the foreign language requirement (Elementary II or higher) before counting Elementary I foreign language courses as Humanities credit.</b>		
Fine/Applied Arts:	3	
HIS 148 American History to 1877 or HIS 149 American History from 1877	3	
Elective:	3	
Elective:	3	
Elective:	3	
<b>SOCIAL AND BEHAVIORAL SCIENCES (12 S.H.)</b> Courses that satisfy this requirement can be found in Social Sciences (Anthropology, Economics, Political Science, Social Sciences, and Sociology), Non-Western Cultures and Psychology.		
PSY 100 Introduction to Psychology *	3	
Elective:	3	
Elective:	3	
Elective:	3	
<b>NATURAL SCIENCES, MATHEMATICS AND COMPUTER SCIENCE (12 S.H.)</b> Students must complete two lab science and a math courses.		
Lab Science: PHY 110 General Physics I*	4	
Lab Science: PHY 111 General Physics II*	4	
MAT 181 Calculus I	4	
<b>HEALTH PROMOTION AND EXERCISE SCIENCES (2 S.H.)</b>		
HPX 177 Fitness for Life — Lecture	1	
HPX 177 Fitness for Life — Activity	1	

\*C or better is required for courses.

\*\*B or better is required for courses.

## Major Requirements (72 S.H.)

<b>CHEMISTRY MAJOR REQUIREMENTS (37 S.H.) MINIMUM 3.0 G.P.A.</b>		
CHE 110 General Chemistry I	4	
CHE 111 General Chemistry II	4	
CHE 205 Analytical Chemistry Lecture	3	
CHE 206 Analytical Chemistry Lab	2	
CHE 210 Organic Chemistry I	4	
CHE 211 Organic Chemistry II	4	
CHE 250 Chemistry Seminar	0.5	
CHE 250 Chemistry Seminar	0.5	
CHE 300 Physical Chemistry I	4	
CHE 301 Physical Chemistry II	4	
CHE 421 Biochemistry I	3	
MAT 182 Calculus II	4	
Advanced Math or Science Elective	3-4	
Senior Presentation Requirement Met?	Y/N	
<b>SECONDARY EDUCATION CERTIFICATION REQUIREMENTS (35 S.H.)</b>		
ED 206 Introduction to Education **	3	
ED 212 Educational Psychology II **	3	
HPX 215 Health Issues in the Schools **	3	
<b>PROFESSIONAL SEMESTER — COMPLETED AS 13 S.H. BLOCK</b>		
EPY 405 Introduction to Special Education **	3	
ED 385 Methods of Teaching in the Secondary Schools **	3	
ED 386 Secondary Ed. Prof. Development School Experience **	1	
ED 440 Integrating Language**	3	
ED 442 Teaching Science in Secondary Schools**	3	
<b>STUDENT TEACHING — COMPLETED AS 13 S.H. BLOCK</b>		
ED 340 Assessment of Teaching Strategies	1	
ED 342 Student Teaching	12	
<b>FREE ELECTIVE (4 S.H.)</b>		
Elective:		
Elective:		
<b>EXAMS FOR STATE CERTIFICATION</b>		
Praxis I (or waiver) Required for admittance to program		
Praxis II		
<b>LICENSE</b>		
TK 20		

Free electives offer an opportunity to complete a minor, study a second language, study abroad, or participate in an internship. Make a plan.

NOTES

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## Four-Year Plan

This is a sample sequence of courses. Other combinations are possible.



Prerequisites are in parentheses; see catalog for details.

Class standing by credit: Freshman: 0-29 credits; Sophomore: 30-59 credits; Junior: 60-89 credits; Senior: 90+ credits

FIRST YEAR (31 S.H.)	SEMESTER 1 (16 S.H.)			SEMESTER 2 (14.5 S.H.)		
	CHE 110 General Chemistry I (M-SAT placement)	4		CHE 111 General Chemistry II (CHE 110)	4	
	Gen. Ed: MAT 181 Calculus I (MAT 133 or equivalent placement)	4		MAT 182 Calculus II (MAT 181 or equivalent placement)	4	
	Gen. Ed: Humanities (foreign language if required)	3		Gen Ed: Humanities (foreign language if required)	3	
	HPX 177 (lecture and activity)	2		CHE 250 Chemistry Seminar	0.5	
	Gen Ed: PSY 100 Introduction to Psychology	3		Gen Ed: Writing Intensive	3	

SECOND YEAR (32 S.H.)	SEMESTER 3 (16 S.H.)			SEMESTER 4 (17 S.H.)		
	PHY 110 General Physics I (MAT 182 and grade of C or better in PHY 103, or placement)	4		PHY 111 General Physics II (PHY 110)	4	
	CHE 210 Organic Chemistry I (≥C in CHE 111)	4		CHE 211 Organic Chemistry II (CHE 210)	4	
	CHE 205 Analytical Chemistry-Lecture (CHE 111 and prerequisite or co-requisite CHE 206)	3		Free Elective	3	
	CHE 206 Analytical Chemistry-Lab (CHE 111 and prerequisite or co-requisite CH 205)	2		ED 212 Educational Psychology II (completion of 30 credits of course work and cumulative GPA ≥ 3.0)	3	
ED 206 Introduction to Education (completion of 30 S.H.)	3		HPX 215 Health Issues in the Schools	3		

THIRD YEAR (34-35 S.H.)	SEMESTER 5 (16 S.H.)			SEMESTER 6 (14.5 S.H.)		
	CHE 300 Physical Chemistry I (CHE 205, CHE 206, CHE 211, MAT 181 and PHY 111)	4		CHE 301 Physical Chemistry II (CHE 300)	4	
	CHE 421 Biochemistry I (CHE 211)	3		Gen. Ed: Social Behavioral Sciences	3	
	Gen. Ed: Fine/Applied Art	3		Gen. Ed: Social Behavioral Sciences	3	
	Gen. Ed: COM 160, 161, 162 or 163	3		Gen. Ed: Social Behavioral Sciences	3	
	Gen. Ed: HIS 148 American History to 1877 or HIS 149 American History from 1877	3		CHE 250 Chemistry Seminar	0.5	
Complete a degree audit and plan for application for graduation			Free Elective	1		

FOURTH YEAR (26 S.H.)	SEMESTER 7 (13 S.H.)			SEMESTER 8 (13 S.H.)		
	EPY 405 Introduction to Special Education (EPY 203 or 204 or PSY 210 or 211)	3		ED 340 Assessment of Teaching Strategies	1	
	ED 385 Methods of Teaching in Secondary Schools (enrollment in professional semester)	3		ED 342 Student Teaching	12	
	ED 386 Secondary Professional Development School Experience (enrollment in professional semester)	1		Senior Presentation		Y/N
	ED 440 Integrating Language (enrollment in professional semester)	3				
ED 442 Teaching Science in Secondary Schools (enrollment in professional semester)	3					

The Education Department requirements are outlined on the department website. Please note requirements for admission to the program, exams, certifications, professional education fees and student teaching policies.