Chemistry with a Major in Secondary Chemistry Education (6-12) (BS)

Degree Program Guide

The Degree Program Guide is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.

Course	Title	Credit Hours
Freshman		
Fall		
ENGL 110C	English Composition (Grade of C or better required)	3
MATH 163	Precalculus II	3
CHEM 121N and CHEM 122N		4
STEM 101	Step 1 – Inquiry Approaches to Teaching STEM	1
Human Creativity		3
CHEM 160G	Introduction to Chemistry and Biochemistry Research and Careers	3
	Credit Hours	17
Spring		
ENGL 211C or ENGL 231C (Gra	ade of C or better required)	3
MATH 211	Calculus I	4
CHEM 123N and CHEM 124N of	r CHEM 125	4
Philosophy and Ethics		3
STEM 102	Step 2 - Inquiry Based STEM Lesson Design	1
	Credit Hours	15
Sophomore		
Fall		
CHEM 211 and CHEM 212		5
MATH 212	Calculus II	4
PHYS 231N	University Physics I	4
STEM 201	Knowing and Learning in STEM Education	3
	Credit Hours	16
Spring		
CHEM 213 AND CHEM 214 or	CHEM 216	5
PHYS 232N	University Physics II	4
STEM 202	Classroom Interactions in STEM Education	3
CHEM 321 and CHEM 322		5
	Credit Hours	17
Junior		
Fall		
CHEM 331	Physical Chemistry Lecture I	3

	Total Credit Hours	129-131
	Credit Hours	16
CHEM 485	Chemistry and Biochemistry Seminar	1
STEM 402	Perspectives on STEM	3
CHEM 415 or CHEM 439 or CHEM 443 or CHEM 451		3
STEM 485	Apprentice Teaching	9
Spring		
	Credit Hours	18
Interpreting the Past		3
Human Behavior		3
STEM 401	Project Based Instruction in STEM Education	3
CHEM 468	Research Methods in Mathematics and Science	3
CHEM 421 and CHEM 422		б
Fall		
Senior		
	Credit Hours	14
Literature		3
COMM 101R	Public Speaking	3
CHEM 449	Environmental Chemistry	3
CHEM 334W	Experimental Physical Chemistry II (C or better required)	2
CHEM 333	Physical Chemistry Lecture II	3
Spring		
	Credit Hours	16-18
Impact of Technology		3
CHEM 352 or CHEM 442W	norgani enemouj	2-4
CHEM 351	Inorganic Chemistry	3
CHEM 441	required)	2
	Chemistry I (C or better	

Experimental Physical

2

CHEM 332W

Language and Culture I & II may be met in high school and are not included in this 4-year plan. Please see requirement details.