

Chemistry Education

Student Name: \_\_\_\_\_

**Requirements for Major**

Course Prefix	Course Number	Major Requirements ( <i>Pre-Requisite</i> )	Liberal Studies	Req. Hours	Semester Taught	Earned Hours
BIOL	110	General Biology	Y	4	Every Fall and Spring	
CHEM	123	General Chemistry I		4	Every Fall	
CHEM	124	General Chemistry II ( <i>General Chemistry I</i> )		4	Every Spring	
CHEM	221	Quantitative Analysis		5	Even Year Fall	
CHEM	300	Organic Chemistry I ( <i>General Chemistry II</i> )		4	Every Fall	
CHEM	310	Organic Laboratory Techniques ( <i>General Chemistry II</i> )		2	Every Fall	
CHEM	320	Organic Chemistry II ( <i>Organic Chemistry I</i> )		4	Every Spring	
CHEM	311	Laboratory Safety and Maintenance ( <i>General Chemistry II</i> )		1	Even Year Spring	
CHEM	330	Organic Synthesis and Spectroscopy ( <i>Organic Chemistry I</i> )		2	Every Spring	
MATH	145	Calculus I	Y	4	Every Fall	
PHYS	221	General Physics I ( <i>Calculus I</i> )	Y	5	Every Fall	
PHYS	222	General Physics II ( <i>University Physics I</i> )		5	Every Spring	
COMP	221	Foundations of Computer Systems		3	Every Fall	
ED	460	Methods of Teaching Natural Sciences (ACCK)		3	Every Spring	
		Chemistry Electives (excludes 120, 130, 299)		4		
		<b><u>Secondary Education Requirements (KSDE Standard #1)</u></b>				
ENGL	120	Introductory English Composition	Y	3	Fall and Spring	
ENGL	121	Intermediate English Composition	Y	3	Fall and Spring	

SCTH	130	Public Speaking: The Art of Oral Communication	Y	3	Fall and Spring	
		<b><u>One of the following courses in History (KSDE Standard #2)</u></b>				
HIST	105	World Civilization I		3	Fall	
HIST	106	World Civilization II		3	Spring	
HIST	220	American History I		3	Fall	
HIST	221	American History II		3	Spring	
		<b><u>Complete one of the courses below (KSDE Standard #3)</u></b>				
BSHS	210	Statistical Analysis	Y	3	Every Fall and Spring	
MATH	105	Survey of College Mathematics	Y	3	Every Fall and Spring	
MATH	120	College Algebra	Y	3	Every Fall and Spring	
MATH	121	Precalculus	Y	3	Spring	
MATH	145	Calculus (required for chemistry)	Y	4	Fall	
MATH	117 and 118	College Algebra: Foundations & Equations and College Algebra: Functions & Graphs	Y	3-4	117 – Every Fall 118 – Every Spring	
MATH	243	Discrete Mathematics	Y	3	Even Year Fall	
		<b><u>Complete a course to meet the following standard (KSDE Standard #4)</u></b>				
		The educator understands the natural world as interconnecting phenomena explained by scientific processes and understands the responsibilities of being stewards of the natural world.				
		<b><u>Complete a course to meet the following standard (KSDE Standard #5)</u></b>				
		The educator understands the importance of the fine arts in contemporary society.				
		<b><u>Complete all of the courses below</u></b>				
SOCI or PSYC	131 101	The Social Imagination or Introductory Psychology: The world of you	N Y	3	Odd Fall and Spring	

SOCI or SOCI	250 240	Racial & Ethical Minorities or Social Inequality		3	Fall. Spring.	
EDUC	244	Developmental Psychology		3	Every Fall and Spring	
SPES	120	Personal & Community and Global Health	Y		Every Semester	
<b><u>Required Courses</u></b>						
EDUC	100	Orientation to Education		1	Every Fall and Spring	
EDUC	208	Foundation and History of American Education		3	Every Fall and Spring	
EDUC	210	Instructional Technology		2	Every Fall and Spring	
EDUC	244	Developmental Psychology		3	Every Fall and Spring	
EDUC	250	Education of the Exceptional Individual		3	Every Fall and Spring	
EDUC	380	Classroom Management		3	Every Spring	
EDUC	415	Educational Psychology		3	Every Spring	
EDUC	385	Reading in the Content Area		2	Every Fall	
EDUC	438	Clinical Practice Seminar		2	Every Fall and Spring	
EDUC	470	Clinical Practice		10	Every Fall and Spring	
EDCU	388	Methods of Teaching in the Secondary School		3	Every Fall	
<b>Total Major Hours:</b>				50+2 8+ 6		

DEGREE REQUIREMENTS			
<b>BACHELOR OF ARTS:</b>			
<b>Total Hours in Major:</b>		84	
<b>Liberal Studies:</b>		36	

<b>Suggested Courses:</b>			
<b>ELECTIVES:</b>			
<b>TOTAL GRADUATION HOURS:</b>	<b>120</b>		

**SUGGESTED SEQUENCE**  
**Even Year Entrance**  
**Major: Chemistry Education**  
**Minor: Secondary Education**

(EVEN YEAR) FALL OF YEAR ONE			(ODD YEAR) SPRING OF YEAR ONE		
Prefix and Number	Course Title	Credit Hours	Prefix and Number	Course Title	Credit Hours
CHEM123	General Chemistry I	4	CHEM124	General Chemistry II	4
MATH145	Calculus I	4	SCTH130	Public Speaking: The Art of Oral Communication	3
ENGL120	Introductory English Composition	3	ENGL121	Intermediate English Composition	3
INTD105	Wesleyan Experience	2	EDUC 244	Developmental Psychology	3
BIOL110	General Biology	3	PSYC101 Or SOCI131	Introductory Psychology: The World of You Or The Sociological Imagination	3
INTD115	Wesleyan Heritage	1	EDUC100	Orientation to Education	1
	Total	17		Total	17

(ODD YEAR) FALL OF YEAR TWO			(EVEN YEAR) SPRING OF YEAR TWO		
EDUC208	Foundations and History of American Education	3	EDUC250	Education of the Exceptional Individual	3
CHEM300	Organic Chemistry I	4	CHEM320	Organic Chemistry II	4
CHEM310	Organic Laboratory Techniques	2	CHEM330	Organic Synthesis and Spectroscopy	2
PHYS221	General Physics I	5	PHYS222	General Physics II	5
COMP221	Foundations of Computer Systems	3	CHEM311	Laboratory Safety and Maintenance	1
		17		Total	17

Apply for Teacher Education Program

(EVEN YEAR) FALL OF YEAR THREE			(ODD YEAR) SPRING OF YEAR THREE		
EDUC385	Reading in the Content Area	2	EDUC385	Classroom Management	3



**SUGGESTED SEQUENCE**  
**Odd Year Entrance**  
**Major: Chemistry Education**  
**Minor: Secondary Education**

<b>(ODD YEAR) FALL OF YEAR ONE</b>			<b>(EVEN YEAR) SPRING OF YEAR ONE</b>		
Prefix and Number	Course Title	Credit Hours	Prefix and Number	Course Title	Credit Hours
CHEM123	General Chemistry I	4	CHEM124	General Chemistry II	4
MATH145	Calculus I	4	SCTH130	Public Speaking: The Art of Oral Communication	3
ENGL120	Introductory English Composition	3	ENGL121	Intermediate English Composition	3
INTD105	Wesleyan Experience	2	EDUC 244	Developmental Psychology	3
BIOL110	General Biology	3	PSYC101	The World of You: An Introduction to Psychology	3
INTD115	Wesleyan Heritage	1	EDUC100	Orientation to Education	1
	Total	17		Total	16

<b>(EVEN YEAR) FALL OF YEAR TWO</b>			<b>(ODD YEAR) SPRING OF YEAR TWO</b>		
EDUC208	Foundations and History of American Education	3	EDUC250	Education of the Exceptional Individual	3
COMP221	Foundations of Computer Systems	3	EDUC210	Instructional Technology	2
CHEM300	Organic Chemistry I	4	CHEM320	Organic Chemistry II	4
CHEM310	Organic Laboratory Techniques	2	CHEM330	Organic Synthesis and Spectroscopy	2
PHYS221	General Physics I	5	PHYS222	General Physics II	5
		3			
		17		Total	16



