

B.S.Ed. Chemistry (127 Credits)

Name	ID#	Grad Date:		
Basic Skills Requirement for Candidacy				
Candidacy Requirements: 48 credits, 3 comp, 3 lit, 6 math, 2.8 GPA, Basic Skills Testing				
Praxis II – Chemistry Content Test (take before student teaching, pass for certification)				
	Credits	Course	Semester	Grade
General Education Requirements				
First Year Experience	4			
WRT 120 Effective Writing	3			
WRT 200, or 204, 205, 206, 207, 208 Critical Writing	3			
Math	-	MAT 161		
Diverse Communities (I)	3	ENG 382		
Interdisciplinary (I)	3	EDF 300		
Ethics Course (E)	3	ERM 355		
Science (6 credits from two areas: CHEM, BIO, ESS, PHY, CSC)	-	BIO 110		
	-	PHY 170		
Behavior & Social Science (6 credits from two areas: ANT, SOC, PSY, ECO, GEO PSC)	3	EDP 280		
	3			
Humanities (must take a LIT course)	3	LIT 165		
	3			
Art	3			
Speaking Emphasis Courses (s)		SED 200		
		EDS 411		
		EDS 412		
Writing Emphasis Courses (w)		LIT 165		
		LNC 105 / FLM 200		
		SED 300		
Capstone		EDS 411		
		EDS 412		
Education Major Requirements				
EDF 300 Democracy in Education	-			
EDP 280 Dev. And Psychological Perspectives in Education	-			
EDA 103 Foundations in Special Education	3			
EDA 303 Special Education for Secondary Educators	2			
LAN/ENG 382 ELL Strategies for Content Area Teachers	-			
EDR 347 Lit. Development and Sec Students with Disabilities	3			
ERM 355 Ethical and Effective Assessment for 7-12 Learning	-			
SED 100 Introduction to Secondary Education	3			
SED 200 Field Experience for 7-12 Secondary Teachers	3			
SED 300 Principles of Teaching and Field Experience in Secondary Schools	3			

SED 360 Science Education in the Secondary School	3			
EDS 411 Student Teaching	6			
EDS 412 Student Teaching	6			
Chemistry Content Coursework				
CHE 103 General Chemistry I	3			
CRL 103 General Chemistry I Lab	1			
CHE 104 General Chemistry II	3			
CRL 104 General Chemistry II Lab	1			
CHE 231 Organic Chemistry	4			
CRL 231 Organic Chemistry I Lab	2			
CHE 232 Organic Chemistry II	3			
CRL 232 Organic Chemistry II Lab	2			
CHE 321 Analytical Chemistry	3			
CRL 321 Analytical Chemistry Lab	2			
CHE 341 Physical Chemistry I	4			
CRL 341 Physical Chemistry I Lab	2			
CHE 409 Descriptive Inorganic Chemistry	3			
CHE 418 Chemical Information	1			
CHE 476 Bio Chemistry I	3			
CHE 491 Chemistry Seminar	1			
Required Supporting Math and Science Coursework				
MAT 161 Calculus I	4			
MAT 162 Calculus II	4			
BIO 110 General Biology I	4			
PHY 170 Physics I	4			
PHY 180 Physics II	4			

Semester	Suggested Courses	Credits
Year 1		
One (15 cr.)	CHE 103 General Chemistry I CRL 103 General Chemistry I Lab MAT 161 Calculus I WRT 120 Effective Writing I FYE 100X First Year Experience	3 1 4 3 4
Two (17 cr.)	CHE 104 General Chemistry II CRL 104 General Chemistry II Lab MAT 162 Calculus II SED 100 Introduction to Secondary Education EDP 280 Educational Psychology WRT 2XX 200-Level WRT Course	3 1 4 3 3 3
Year 2		
Three (18 cr.)	CHE 231 Organic Chemistry I CRL 231 Organic Chemistry I Lab CHE 321 Analytical Chemistry I CRL 321 Analytical Chemistry I Lab PHY 170 Physics I	4 2 3 2 4

	EDA 103 Foundations of Special Education	3
Four (17 cr.)	CHE 232 Organic Chemistry II	3
	CRL 232 Organic Chemistry II Lab	2
	PHY 180 Physics II	4
	SED 200 Field Experience for 7-12 Secondary Teachers	3
	EDA 303 Special Education for Secondary Educators	2
	LNC 105 / FLM 200 (Beh. & Soc. Sci. Elective / Writing Emp.)	3
Year 3		
Five (17 cr.)	CHE 341 Physical Chemistry I	4
	CRL 341 Physical Chemistry I Lab	2
	CHE 418 Chemical Information	1
	BIO 110 General Biology I	4
	EDF 300 Democracy & Education	3
	LIT 165 Topics in Literature	3
Six (15 cr.)	CHE 476 Biochemistry I	3
	SED 300 Principles of Teaching and Field Experience in Secondary Schools	3
	ERM 355 Ethical & Effective Assessment for 7-12 Learning	3
	LAN/ENG 382 ELL Strategies for Content Area Teachers	3
	Behavioral & Social Science Elective	3
Year 4		
Seven (16 cr.)	CHE 409 Descriptive Inorganic Chemistry	3
	CHE 491 Seminar in Chemistry	1
	SED 360 Science Education in the Secondary Schools	3
	EDR 347 Literacy Development and Secondary Students with Disabilities in Inclusive Classrooms	3
	Humanities Elective	3
	Arts Elective	3
Eight (12 cr.)	EDS 411 Student Teaching Secondary – 1 st half	6
	EDS 412 Student Teaching Secondary – 2 nd half	6