WEST CHESTER UNIVERSITY **B.S.ED. IN CHEMISTRY**

B.S.ED. IN CHEMISTRY

College of Education and Social Work

Curriculum

Code	Title	Credits		
	CATION REQUIREMENTS (http://	Cicuito		
catalog.wcupa.edu	/undergraduate/general-education-			
requirements/)				
Academic Founda	tions			
First Year Experien	•	4		
English Compositi	on requirement	6-7		
Mathematics requirement		3-4		
Interdisciplinary requirement		3		
Diverse Communities requirement		3		
Ethics requirement ⁸		3		
Distributed Discip	olinary Foundations			
Science requirement		6-8		
Behavioral & Socia	1 Science requirement	6		
Humanities require	ement ¹	6		
Arts requirement		3		
	BACCALAUREATE			
	ΓS (http://catalog.wcupa.edu/			
-	neral-education-requirements/)			
University Require				
Writing Emphasis		9		
Speaking Emphasis	_	9		
Degree Requireme				
Capstone requirem		1-15		
MAJOR REQUIE				
Major Core Cours				
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 I	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 I	3		
CRL 321	Analytical Chemistry I 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	Biochemistry I	3		
CHE 491	Seminar in Chemistry	1		
Required Supports	ing Math & Science Coursework ³			
MAT 161	Calculus I ⁵	4		
MAT 162	Calculus II	4		
BIO 110	General Biology I ²	4		
PHY 170	Physics I ²	4		
PHY 180	Physics II	4		
	ust be passed before application for			
graduation. See advisor for more information				
Education Require				
EDF 300	Democracy and Education ⁵	3		

EDP 280	Developmental and Psychological Perspectives in Education	3		
EDA 103	Foundations of Special Education	3		
EDA 303	Special Ed: Processes/Procedures for General Educators	2		
EDR 347	Literacy Development and Secondary Students with Disabilities in Inclusive Classrooms	3		
LAN/ENG 382	Teaching English Language Learners PK-12 ⁵	3		
ERM 355	Ethical and Effective Assessment for Learning 7-12 ⁵	3		
SED 100	An Exploration of Secondary Education	3		
SED 200	Learning Environments and Field Experience in Secondary Schools	3		
SED 300	Principles of Teaching and Technology in the Secondary Classroom	3		
SED 360	Science Education in the Secondary School	3		
Capstone Requirement				
SED 411	Student Teaching Sec - 1st Half ⁴	6		
SED 412	Student Teaching Sec - 2nd Half ⁴	6		
Total Minimum Credits Required				

Students in this program must take a LIT course
 PHY 170 and BIO 110 fulfill science general education requirements.

³ A grade of C- or better is necessary in all required science and mathematics courses.

This course fulfills the Capstone requirement.

⁵ Meets general education requirement

6 Writing Emphasis requirements satisfied by LIT 165, LNC 105/FLM 200 as Arts requirement and SED 300.

Speaking Emphasis requirements satisfied by SED 200, SED 411, and SED 412.

8 Ethics requirement satisfied by ERM 355.

Sample Course Plan

To track their individual degree progress, students are advised to access their Degree Progress Report (DPR) via myWCU regularly. For more information, visit wcupa.edu/DegreeProgressReport (http://wcupa.edu/ degreeprogressreport/).

The following is a sample suggested course sequence for this program; course offerings and availability are not guaranteed. Students should consult their academic advisor with any questions.

Course	Title	Credits	
Year One			
Semester One			
CHE 103 & CRL 103	General Chemistry I and General Chemistry I Lab	4	
MAT 161	Calculus I	4	
WRT 120	Effective Writing I	3	
FYE 100X	First Year Experience	4	
	Credits	15	
	Cituits	13	
Semester Tw		15	
Semester Tw CHE 104 & CRL 104		4	
CHE 104	o General Chemistry II		
CHE 104 & CRL 104	General Chemistry II and General Chemistry II Lab	4	

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WRT 2XX	200-Level WRT Course	3		
	Credits	17		
Year Two	Creatio			
Semester Thi	ree			
CHE 231	Organic Chemistry I	6		
& CRL 231	and Organic Chemistry I Lab			
CHE 321	Analytical Chemistry I	5		
& CRL 321	and Analytical Chemistry I Lab			
PHY 170	Physics I	4		
EDA 103	Foundations of Special Education	3		
_	Credits	18		
Semester For		_		
CHE 232 & CRL 232	Organic Chemistry II	5		
PHY 180	and Organic Chemistry II Lab	4		
SED 200	Physics II Learning Environments and Field	3		
JLD 200	Experience in Secondary Schools	3		
EDA 303	Special Ed: Processes/Procedures for General Educators	2		
LNC 105	Global Science Fiction	3		
or	or Introduction to Film	3		
FLM 200				
	Credits	17		
Year Three				
Semester Fiv	re			
CHE 341	Physical Chemistry I	6		
& CRL 341	and Physical Chemistry I Lab			
CHE 418	Chemical Information	1		
BIO 110	General Biology I	4		
EDF 300 LIT 165	Democracy and Education	3		
L11 103	Topics in Literature Credits	3 17		
Semester Six		17		
CHE 476	Biochemistry I	3		
SED 300	Principles of Teaching and Technology in	3		
ERM 355	the Secondary Classroom Ethical and Effective Assessment for	3		
	Learning 7-12			
LAN 382	Teaching English Language Learners	3		
or ENG 382	PK-12 or Teaching English Language			
Rehavioral &	Learners PK-12 Social Science Gen Ed	3		
Dellavioral &	Credits	15		
Year Four	Cabulto	13		
Semester Sev	ze n			
CHE 409	Descriptive Inorganic Chemistry	3		
CHE 491	Seminar in Chemistry	1		
SED 360	Science Education in the Secondary School ¹	3		
EDR 347	Literacy Development and Secondary Students with Disabilities in Inclusive Classrooms	3		
Humanities (Humanities Gen Ed 3			
Arts Gen Ed		3		
	Credits	16		
Semester Eig	Semester Eight			
SED 411	SED 411 Student Teaching Sec - 1st Half ¹ 6			

SED 412	Student Teaching Sec - 2nd Half ¹	6
	Credits	12
	Total Credits	127

¹ Field course. Clearances required.