WEST CHESTER UNIVERSITY **B.S. IN BIOCHEMISTRY**

B.S. IN BIOCHEMISTRY

College of the Sciences and Mathematics

Curriculum

Code	Title	Credits
GENERAL EDUC	CATION REQUIREMENTS (http://	
catalog.wcupa.edu	/undergraduate/general-education-	
requirements/)		
Academic Foundat		
First Year Experien	ce requirement	4
English Composition	• •	6-7
Mathematics requir	ement ³	3-4
Interdisciplinary red	•	3
Diverse Communities requirement		3
Ethics requirement		3
	linary Foundations	
Science requiremen		6-8
Behavioral & Social Science requirement		
Humanities requirement		6
Arts requirement		
	ACCALAUREATE	
	S (http://catalog.wcupa.edu/ neral-education-requirements/)	
University Require	<u>-</u>	
Writing Emphasis		9
Speaking Emphasis		9
Degree Requireme	•	,
		1-15
Capstone requireme		1-13
Core Courses 1	ENIEN I S	
CHE 103	Con and Chamietury I	3
CHE 103	General Chemistry I	3
CHE 231	General Chemistry II Organic Chemistry I	3
CHE 232	Organic Chemistry II	3
CHE 321	Analytical Chemistry I	3
CHE 418	Chemical Information	1
CHE 476	Biochemistry I	3
CRL 103	•	1
CRL 103	General Chemistry I Lab General Chemistry II Lab	1
CRL 231	Organic Chemistry I Lab	2
CRL 321	Analytical Chemistry I Lab	2
PHY 170	Physics I	4
PHY 180	Physics II	4
BIO 110	General Biology I	4
MAT 161	Calculus I	4
MAT 162	Calculus II	4
Other Required Co		'
CHE 341	Physical Chemistry I	4
CHE 342	Physical Chemistry II	3
CHE 411	Advanced Inorganic Chemistry	3
CHE 424	Advanced Analytical Chemistry	3
CHE 477	Biochemistry II	3
CRL 232	Organic Chemistry II Lab	2
CRL 341	Physical Chemistry I Lab	2
CRL 341	Physical Chemistry II Lab	2
CRL 342 CRL 411	Inorganic Syntheses Lab	2
CRL 411 CRL 424	Analytical Chemistry II Lab	2
CILL IZT	That tear Chemistry II Dab	2

CRL 476	Diaghamiatan II ah	2		
	Biochemistry I Lab	4		
CRL 477	Biochemistry II Lab	2		
Lab safety exam must be passed before application for graduation. See advisor for more information				
Select one of the	3-4			
BIO 210	Genetics			
BIO 211	Cell Biology			
BIO 214	General Microbiology			
Biochemistry Elective				
Students must sel	3			
CHE 333	Advanced Organic Chemistry			
CHE 410	Advanced Independent Study or Research			
CHE 479	Chemical Toxicology			
CHE 535	Pharmaceutical Chemistry			
Capstone Requirement				
CHE 491	Seminar in Chemistry ^{1,2}	1		
Total Minimum	120			

¹ A grade of C- or higher is necessary in all required science and mathematics courses.

This course fulfills the Capstone requirement.

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 Year One Fall	Title	Credits
CHE 103 & CRL 103	General Chemistry I and General Chemistry I Lab	4
MAT 161	Calculus I	4
BIO 110	General Biology I	4
FYE 100X	First Year Experience	4
	Credits	16
Spring		
CHE 104 & CRL 104	General Chemistry II and General Chemistry II Lab	4
MAT 162	Calculus II	4
PHI 180	Introduction to Ethics	3
WRT 120	Effective Writing I	3
BIO XXX	Biology Elective ¹	3
	Credits	17
Year Two		
Fall		
CHE 231 & CRL 231	Organic Chemistry I and Organic Chemistry I Lab	6
CHE 321 & CRL 321	Analytical Chemistry I and Analytical Chemistry I Lab	5
PHY 170	Physics I	4

MAT 161 fulfills the Mathematics General Education requirement.

⁴ BIO 110 and PHY 170 fulfill the Science Distributive General Education requirements.

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Department Safety Exam

Department	Safety Exam	
	Credits	15
Spring		
CHE 232	Organic Chemistry II	5
& CRL 232	and Organic Chemistry II Lab	
PHY 180	Physics II	4
WRT 2XX	200-Level WRT Course	3
Student Elective		3
	Credits	15
Year Three		
Fall		
CHE 341	Physical Chemistry I	6
& CRL 341	and Physical Chemistry I Lab	
CHE 418	Chemical Information	1
CHE 476	Biochemistry I	5
& CRL 476	and Biochemistry I Lab	
Behavioral &	Social Science Gen Ed	3
	Credits	15
Spring		
CHE 342	Physical Chemistry II	5
& CRL 342	and Physical Chemistry II Lab	
CHE 477	Biochemistry II	5
& CRL 477	and Biochemistry II Lab	
Humanities (Gen Ed	3
Arts Gen Ed		3
	Credits	16
Year Four		
Fall		
CHE 491	Seminar in Chemistry	1
CHE XXX	Biochemistry Elective ²	2
Behavioral &	Social Science Gen Ed	3
Interdisciplin	ary Gen Ed	3
Student Elec	tive	4
	Credits	13
Spring		
CHE 411	Advanced Inorganic Chemistry	5
& CRL 411	and Inorganic Syntheses Lab	
CHE 424	Advanced Analytical Chemistry	5
& CRL 424	and Analytical Chemistry II Lab	
Student Elective		3
	Credits	13
	Total Credits	120

This course is a a biochemistry program elective in the Biology Department. Each student must complete one elective from the following selected courses: BIO 210, BIO 211, or BIO 214.
 This course is a biochemistry program elective in the Chemistry Department. Each student must complete one elective from the following selected courses: CHE 333, CHE 410, CHE 479, or CRL 477.