B.S. IN BIOCHEMISTRY

Curriculum

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Code	Title	Credits
catalog.wcupa.edu	CATION REQUIREMENTS (https:// /undergraduate/general-education-	
requirements/)		
Academic Foundat		
First Year Experien	•	4
English Composition		6-7
Mathematics requir		3-4
MAT 161	Calculus I	
Interdisciplinary red	_	3
Diverse Communit		3
PHI 180	Introduction to Ethics ²	
Ethics requirement		3
	linary Foundations	
Science requiremen		6-8
BIO 110	General Biology I	
PHY 170	Physics I	
	1 Science requirement	6
Humanities require	ement ²	6
Arts requirement		3
	BACCALAUREATE	
	TS (https://catalog.wcupa.edu/	
	neral-education-requirements/)	
University Require		0
Writing Emphasis	-	9
Speaking Emphasis	•	9
Degree Requireme		
Capstone requireme		1-15
MAJOR REQUIR	REMENTS	
Core Courses 1		
CHE 103	General Chemistry I	3
CHE 104	General Chemistry II	3
CHE 231	Organic Chemistry I	4
CHE 232	Organic Chemistry II	3
CHE 321	Analytical Chemistry I	3
CHE 418	Chemical Information	1
CHE 476	Biochemistry I	3
CRL 103	General Chemistry I Lab	1
CRL 104	General Chemistry II Lab	1
CRL 231	Organic Chemistry I Lab	2
CRL 321	Analytical Chemistry I Lab	2
MAT 162	Calculus II	4
PHY 180	Physics II	4
Other Required Co		
CHE 341	Physical Chemistry I	4
CHE 342	Physical Chemistry II	3
CHE 409	Foundational 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 342	Physical Chemistry II Lab	2
CRL 411	Inorganic Syntheses Lab	2
CRL 424	Analytical Chemistry II Lab	2

CRL 476	Biochemistry I Lab	2		
CRL 477	Biochemistry II Lab	2		
Lab safety exam must be passed before application for graduation. See advisor for more information				
Capstone Requirement				
CHE 491	Seminar in Chemistry ^{1, 3}	1		
Total Minimum I	120			

A grade of C- or higher is necessary in all required science and mathematics courses.
 PHI 180 fulfills the Ethics requirement and 3 credits of the

Sample Course Plan

To track their individual degree progress, students are advised to access their Degree Audit via RamPortal regularly. For more information, visit the Degree Audit FAQ webpage (https://www.wcupa.edu/academicEnterpriseSystems/student-system-modernization/degree-audit-faqs.aspx).

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
Free Elective		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
Department S	Safety Exam	
	Credits	15
Spring		
CHE 232 & CRL 232	Organic Chemistry II and Organic Chemistry II Lab	5
PHY 180	Physics II	4
WRT 2XX	200-Level WRT Course	3
Free Elective		3
	Credits	15

² PHI 180 fulfills the Ethics requirement and 3 credits of the Humanities requirement in addition to the Diverse Communities requirement

requirement.
This course fulfills the Capstone requirement.

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Year Three		
Fall		
CHE 341	Physical Chemistry I	6
& CRL 341	and Physical Chemistry I Lab	
CHE 418	Chemical Information	1
CHE 476 & CRL 476	Biochemistry I and Biochemistry I Lab	5
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 409	Descriptive Inorganic Chemistry	3
CHE 491	Seminar in Chemistry	1
Behavioral &	Social Science Gen Ed	3
Interdisciplin	ary Gen Ed	3
Free Elective		3
	Credits	13
Spring		
CRL 411	Inorganic Syntheses Lab	2
CHE 424	Advanced Analytical Chemistry	5
& CRL 424	and Analytical Chemistry II Lab	
Free Elective		3
Free 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

² 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.