B.S. in Forensic and Toxicological Chemistry 1

B.S. IN FORENSIC AND TOXICOLOGICAL CHEMISTRY

Curriculum

Curricului		
Code	Title	Credits
	ATION REQUIREMENTS (https://	
	undergraduate/general-education-	
requirements/)		
Academic Foundation		4
First Year Experience	4	
English Composition requirement		6-7
Mathematics requirement		3-4
Interdisciplinary requirement		3
Diverse Communities requirement		3
Ethics requirement	3	
Distributed Discipli	inary Foundations	
Science requirement		6-8
Behavioral & Social Science requirement		6
Humanities requirem	nent	6
Arts requirement		3
ADDITIONAL BA		
	5 (https://catalog.wcupa.edu/ eral-education-requirements/)	
University Requiren	-	
		9
Writing Emphasis re	-	9
Speaking Emphasis	•	,
Degree Requiremen		1-15
Capstone requirement MAJOR REQUIRI		1-13
Major Core Courses		2
CHE 103	General Chemistry I	3
CHE 104 CHE 231	General Chemistry II	4
	Organic Chemistry I	4
CHE 232	Organic Chemistry II	
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
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 Con		4
CHE 341	Physical Chemistry I	4
CHE 361	Forensic Chemistry I	3
CHE 371	Forensic Chemistry II	3
CHE 424	Advanced Analytical Chemistry	3
CHE 451	Internship in Forensic Chemistry	4
CHE 465	Forensic Microscopy	3
CHE 479	Chemical Toxicology	3
CHE 343	Chemistry and the Law	
CRL 232	Organic Chemistry II Lab	2

CRL 341	Physical Chemistry I Lab	2		
CRL 371	Forensic Chemistry Lab	2		
CRL 476	Biochemistry I Lab	2		
MAT 125	Introduction to Statistics and Probability	3		
Lab safety exam graduation. See	must be passed before application for advisor for more information			
BIO 210	Genetics	3		
BIO 210L	Genetics Lab	1		
BIO 211	Cell Biology	4		
CRL 477	Biochemistry II Lab	2		
Capstone Requirement ¹				
CHE 491	Seminar in Chemistry ²	1		
Total Minimun	122			

¹ A grade of C- or better is necessary in all required science and ² This course fulfills the Capstone requirement.

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/degreeaudit-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	Title	Credits
Year One	liue	Creatis
Fall		
Fall CHE 103		2
	General Chemistry I	3
CRL 103	General Chemistry I Lab	1
MAT 161	Calculus I	4
WRT 120	Effective Writing I	3
FYE 100X	First Year Experience	4
	Credits	15
Spring		
CHE 104	General Chemistry II	3
CRL 104	General Chemistry II Lab	1
MAT 162	Calculus II	4
BIO 110	General Biology I	4
WRT 2XX	200-Level WRT Course	3
	Credits	15
Year Two		
Fall		
CHE 231	Organic Chemistry I	4
CRL 231	Organic Chemistry I Lab	2
CHE 321	Analytical Chemistry I	3
CRL 321	Analytical Chemistry I Lab	2
MAT 125	Introduction to Statistics and Probability	3
PHY 170	Physics I	4
	Credits	18
Spring		
CHE 232	Organic Chemistry II	3
CRL 232	Organic Chemistry II Lab	2
CHE 361	Forensic Chemistry I	3
PHY 180	Physics II	4

BIO 210	Genetics	3
BIO 210L	Genetics Lab	1
	Credits	16
Year Three		
Fall		
CHE 341	Physical Chemistry I	4
CRL 341	Physical Chemistry I Lab	2
CHE 371	Forensic Chemistry II	3
CRL 371	Forensic Chemistry Lab	2
CHE 418	Chemical Information	1
CHE 343	Chemistry and the Law	3
	Credits	15
Spring		
CHE 424	Advanced Analytical Chemistry	3
CHE 465	Forensic Microscopy	3
PHI 180	Introduction to Ethics	3
Humanities Gen Ed		3
Arts Gen Ed	1	3
	Credits	15
Year Four		
Fall		
CHE 476	Biochemistry I	3
CRL 476	Biochemistry I Lab	2
CHE 491	Seminar in Chemistry	1
BIO 211	Cell Biology	4
Interdisciplinary Gen Ed		3
Behavioral &	ε Social Science Gen Ed	3
	Credits	16
Spring		
CHE 451	Internship in Forensic Chemistry	4
CRL 477	Biochemistry II Lab	2
CHE 479	Chemical Toxicology	3
Behavioral 8	c Social Science Gen Ed	3
	Credits	12
	Total Credits	122