SAMPLE 4-YEAR PLAN: CHEMISTRY-FORENSICS B.S.

Northern Kentucky University

This is one way a student can complete this program in four years if they require no developmental courses (Mathematics ACT ≥ 25, English ACT ≥ 18, and Reading ACT ≥ 20 or their equivalences). Should a student not meet these requirements, additional developmental courses not listed here will be necessary.

MAJOR: Chemistry TRACK: Forensics

FIRST YEAR	Fall Semester		Spring Semester		
	CHE 120 General Chemistry I	3	CHE 121 General Chemistry II	3	
Meet with freshman specialist; man paragraph four year plan.	CHE 120L General Chemistry I	1	CHE 121L General Chemistry	1	
map personal four-year plan.Make use of student support:	Laboratory		II Laboratory		
tutoring, SI, writing center,	MAT 129 Calculus Ia	4	MAT 229 Calculus IIa	5	
mathematics lab.	Gen Ed: Communication;	3	Gen Ed: Communication; Oral	3	
Investigate undergraduate re-	Written				
search, coop option.	BIO 150 Introduction to Biology	4	BIO 151 Introduction to Biology	4	
 Join student clubs. 	I		II		
Com stadom sidos.	BIO 150L Introduction to	0	BIO 151L Introduction to	0	
	Biology I Laboratory		Biology II Laboratory		
	CHE 125 Intro to Chemistry	1	g, ,		
	and Biochemistry				
	TOTAL	16	TOTAL	16	
SECOND YEAR	Fall Semester		Spring Semester		
Meet with your new forensics	CHE 310 Organic Chemistry I	3	CHE 311 Organic Chemistry II	3	
advisor.	CHE 310L Organic Chemistry I	1	CHE 311L Organic Chemistry	1	
Join research group.	Laboratory		II Laboratory		
Investigate forensic internship	PHY 211 General Physics with	5	PHY 213 General Physics with	5	
opportunities to gain experience	Laboratory I ^b		Laboratory II ^b		
that will be critical in obtaining	JUS 101 Introduction to	3	CHE 391W Chemical	3	
later employment.	Criminal Justice		Information and Writing		
	STA 205 Introduction to	3	BIO 349 Genetics	4	
	Statistical Methods				
			BIO 349/L Genetics Lab	0	
	TOTAL	15	TOTAL	16	
THIRD YEAR	Fall Semester		Spring Semester		
Work closely with advisor to fine	CHE 482 Biochemistry I	3	Gen Ed	3	
tune career plans.	CHE 482L Biochemistry I	1	JUS 231 Race, Gender and the	3	
Begin to investigate gradu-	Laboratory		Law ^c		
ate/professional programs.	BIO 400 Advanced Molecular	4	JUS 320 Advanced Crime	3	
Register for entrance exams	Biology		Scene Technology and		
(GRE, MCAT, PCAT).			Criminalistics ^c		
Work with Career Services to	BIO 400L Advanced Molecular	0		3	
polish resume, apply for coops.	Biology Laboratory		Analysis ^d		
Continue working to gain forensic	JUS 204 Criminal Investigation	3	CHE 350L Instrumental	2	
coop/internship experience.			Analysis Laboratory ^d		
	CHE 340 Analytical Chemistry	3			
	CHE 340L Analytical	2			
	Chemistry Laboratory				
	TOTAL	16	TOTAL	14	
FOURTH YEAR	Fall Semester		Spring Semester		
Attend job fairs, conduct mock	CHE 360 Physical Chemistry I	3	CHE 361 Physical Chemistry II	3	
- Attoria job fails, corradot filock	CHE 400 Chemistry Seminar	1	CHE 362L Physical Chemistry	2	

	interviews with Career Services.			Laboratory	
•	Contact professors for letters of recommendation.	JUS 205 Criminal Evidence ^c	3	JUS 404 Evidence Preparation and Courtroom Testimony ^c	3
•	Gather application materials,	Gen Ed	3	Gen Ed	3
	apply early to desired programs.	Gen Ed	3	JUS 303 Criminal Procedure ^c	3
•	Plan and complete senior semi-				
	nar, honors thesis.	TOTAL	13	TOTAL	14
•	Celebrate your graduation!				
				GRAND TOTAL OF CREDITS	120

Notes:

- a Alternatively, the calculus requirement can be met by taking calculus A, B, and C (MAT 128, MAT 227, and MAT 228). b Alternatively, university physics I and II (PHY 220 and PHY 222) may be taken. If these courses are chosen, they can be taken spring/fall or fall/fall; PHY 222 is offered only in the fall, but PHY 220 is offered fall and spring.
- c Students are strongly encouraged to obtain the minor in criminalistics to complement their B.S., chemistry-forensics track degree. In addition to JUS 101 and JUS 204, which are required for the forensics track, the following courses are needed to complete the criminalistics minor; JUS 205, JUS 231, JUS 303, JUS 320 and JUS 404. Because of the complexity of scheduling this major/minor combination, students are urged to work extremely closely with their advisors.
- d Students may alternatively choose BIO 455 Scanning Electron Microscopy in place of instrumental chemistry (CHE 350 and CHE 350L); in this case, students will need to add one elective hour to their program to reach the 120 hours required to graduate.

All majors should begin their mathematics sequence in order to complete calculus II as soon as possible. All majors should also take the chemistry writing course (CHE 391W) as soon as they complete their first 300-level or above chemistry course (usually CHE 310 or CHE 340), as this course is a prerequisite for many other 300- and 400- level lab courses. In completing the requirements for the B.S. chemistry-forensics track degree, students also satisfy general education requirements in communication-written II (CHE 391W), natural sciences (CHE 120 and CHE 120L, PHY 211 or PHY 220), mathematics (MAT 128 or MAT 129) and individual and society (JUS 101). Students choosing the criminalistics minor additionally satisfy global viewpoints (JUS 231).