CURRICULUM GUIDE

Forensic Science, B.S. (Forensic Chemistry Concentration) 2023-2024

Website: www.forensicscience.eku.edu Email Contact: forensics@eku.edu Department of Chemistry 521 Lancaster Ave. 4126 New Science Building Richmond, KY 40475 859-622-1456

The schedule below is an **EXAMPLE** of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made.

	Fall Semester		Spring Semester		
Freshman	SCO 100C	1	^G BIO 111 (fulfills Gen. Ed. 4)	4	
Year	CHE 111	3	CHE 112	3	
	CHE 111L	1	CHE 112L	1	
	FOR 301	3	*STA 215 <u>or</u> 270	3-4	
	§ GMAT 234 (fulfills Gen. Ed. 2)	4	Gen. Ed. 1B (<i>ENG</i> 102)	3	
	Gen. Ed. 1A (<i>ENG 101 or 105</i>)	3	*Free Electives	0-1	
	TOTAL	15	TOTAL	15	
Sophomore	CHE 361	3	CHE 362	3	
Year	CHE 361L	1	CHE 362L	1	
	FOR 401	1	CHE 325	3	
	^G PHY 131 <u>or</u> 201 (fulfills Gen.		CHE 325L	2	
	Ed. 4)	5	PHY 132 <u>or</u> 202	5	
	Gen. Ed. 5B (Soc. & Behav. Sci.)	3			
	BIO 112	4			
		_ \			
	TOTAL	17	TOTAL	14	
Junior	FOR 411	3	FOR 412 (spring only)	3	
	FOR 411L	1	FOR 412L (spring only)	3	
Year	FOR 451 (fall only)	2	FOR 431 (spring only)	1	
	FOR 451L (fall only)	1	FOR 442 (spring only)	3	
	†CHE/FOR Restricted Elective (FOR	-	FOR 442L (spring only)	1	
	310 recommended)	1	Gen. Ed. 3A (Arts)	3	
	Gen. Ed. 6 (<i>Diversity</i>)	3	, ,		
	*Free Elective	3			
	TOTAL	14	TOTAL	14	
	TOTAL	14	TOTAL	14	
SUMMER	MER ♠ NOTE : While not required, it is strongly recommended that students complete THREE (3) (3		(3)		
	HOURS of FOR 349: Applied Learning in Foren				
	interested in the internship must complete FC)R 310 t	raining for Forensic Internship before		
	taking FOR 349.		CUE F20 (series sets)	2	
Senior	CHE 430	3	CHE 520 (spring only) CHE 570	3 4	
Year	FOR 465 (fall only)	3		3	
	FOR 499 (fall only) Gen. Ed. 1C (Oral Comm.)	3	†CHE/FOR Restricted Elective Gen. Ed. 3B (<i>Humanities</i>)	3	
	Gen. Ed. 1C (<i>Oral Comm.)</i> Gen. Ed. 6 (<i>Diversity</i>)	3	Gen. Ed. 5B (Humanities) Gen. Ed. 5A (History)	3	
	Gen. La. o (Diversity)	э	Gen. Lu. 3A (mistory)	3	
	TOTAL	15	TOTAL	16	
TOTAL HOURS TO DECREE COMPLETION AND					
TOTAL HOURS TO DEGREE COMPLETION 120					

* If STA 215 (3 hrs) is taken, then 4 hours of Free Elective must be taken.	If STA 270 (4 hrs) is taken, only 3 hours of
Free Elective must be taken.	

^{*} PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses.

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300-level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories.

Refer to the University Catalog at http://www.catalogs.eku.edu/ regarding University and General Education Requirements.

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ı	Course	Course Name			
ı	Number				
۱	GENERAL EDUCAT	GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)			
	SCO 100C	Student Success Seminar for Chemistry (1)			
		, (-)			
	CORE COURSE REQUIREMENTS (35)				
	CHE 111	General Chemistry I (3)			
	CHE 111L	General Chemistry Lab I (1)			
	CHE 112 CHE 112L	General Chemistry II (3) General Chemistry Lab II (1)			
J	CHE 361	Organic Chemistry I (3)			
	CHE 361L	Organic Chemistry Lab I (1)			
	∫ CHE 362	Organic Chemistry II (3)			
	CHE 362L	Organic Chemistry Lab II (1)			
	CHE 430	Biochemistry of Macromolecules (3)			
	FOR 301	Intro. to Forensic Science (3)			
	FOR 401	Forensic Professional Practice (1)			
	FOR 431	DNA Profiling (3) (spring only)			
	∫FOR 451	Forensic Microscopic Analysis (2) (fall only)			
	FOR 451L	Forensic Microscopy Lab (1) (fall only)			
1	FOR 465	Expert Witness Testimony (3) (fall only)			
	FOR 499	Forensic Science Capstone (3) (fall only) I items must/should be taken concurrently.			
		, ,			
	CHE 325	STRY CONCENTRATION REQUIREMENTS (28)			
	CHE 325L	Analytical Chemistry (3) Analytical Chemistry Lab (2)			
	CHE 520 or	Mass Spectrometry (3) (spring only)			
	CHE 720	Mass Spectrometry (3) (spring only)			
	CHE 570 or	Biophysical Chemistry I (4)			
	CHE 770	Biophysical Chemistry I (4)			
	CHE 425 and	Instrumental Analysis (3)			
	CHE 425L OR	Instrumental Analysis Lab (1)			
4	FOR 411 <u>and</u>	Instrumental Analysis (3)			
	FOR 411L	Forensic Instrumental Lab (1)			
	FOR 412	Forensic Trace Evidence (3) (spring only)			
	☐ FOR 412L [FOR 442	Forensic Trace Evidence Lab (1) (spring only)			
1	FOR 442L	Forensic Toxicology & Drugs (3) (spring only) Drugs & Toxicology Lab (1) (spring only)			
		URS selected from the following (restricted			
	elective):	the second from the following (resulted			
	CHE 349	Applied Learning in Chemistry (0.5-8)			
	CHE 349 A-N	Cooperative Study: Chemistry (0.5-8)			
	CHE 432	Biochemistry Laboratory (1) (spring only)			
	*CHE 450	Inorganic Chemistry (3) (fall only)			
	CHE 501	Chemtopics (1-3)			
	CHE 501L	Chemtopics Lab (1)			
1	FOR 310 FOR 330	Preparation for Internship (1) (fall only) Bloodstain Pattern Analysis (1)			
ı	FOR 349	Applied Learning in Forensic Science (0.5-8)			
l	FOR 431L	DNA Profiling (3) (spring only)			
	FOR 460	Special Topics in forensic Science (1-3)			
	FOR 490	Introduction to Research (1-3)			
	*FSE 350	Fire, Arson and Explosion Investigation (3)			
	*FSE 380	Fire and Explosion Scene Analysis (3)			
	*PLS 316	Criminal Evidence (3)			
	SUPPORTING COURSE REQUIREMENTS (16-17)				
	^G BIO 111	Cell and Molecular Biology (4)			
	BIO 112	Ecology and Evolution (4)			
	^G MAT 234	Calculus I (4)			
	GDUV 121	Callege Dhysica L/F)			

SUPPORTING COURSE REQUIREMENTS (16-17)				
^G BIO 111	Cell and Molecular Biology (4)			
BIO 112	Ecology and Evolution (4)			
^G MAT 234	Calculus I (4)			
^G PHY 131 <u>or</u>	College Physics I (5)			
^G PHY 201	University Physics I (5)			
* PHY 132 <u>or</u>	College Physics II (5)			
* PHY 202	University Physics II (5)			
STA 215 <u>or</u>	Introduction to Statistical Reasoning (3)			
STA 270	Applied Statistics I (4)			
EDEE ELECTIVES /2 A	1			

G Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

[§] A preparatory course in mathematics (MAT 122) may be required before admission to MAT 234.