

CURRICULUM GUIDE

Forensic Science, B. S. (Forensic Biology Concentration) 2015-2016

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 Year	ASO 100C	1	ASO 100C	1
	CHE 111	3	CHE 111	3
	CHE 111L	1	CHE 111L	1
	§ ⁶ MAT 234 <i>or</i> 234H (fulfills Gen. Ed. 2)	4	FOR 301	3
	Gen. Ed. 1A (ENG 101)	3	STA 270	3
	Gen. Ed. 3A (Arts)	3	Gen. Ed. 1B (ENG 102)	3
	TOTAL	15	TOTAL	17
Sophomore Year	CHE 361	3	CHE 362	3
	CHE 361L	1	CHE 362L	1
	§ PHY 131 <i>or</i> 201 (fulfills Gen. Ed. 4)	5	FOR 331	3
	Gen. Ed. 1C (Oral Comm.)	3	FOR 331L	1
	Gen. Ed. 3B (Humanities)	3	PHY 132 <i>or</i> 202	5
		3	Wellness	3
	TOTAL	15	TOTAL	16
Junior Year	BIO 315	4	BIO 320	4
	CHE 325	3	CHE 432	1
	CHE 325L	2	FOR 401	3
	CHE 430 (fall only)	3	FOR 411	3
	* (FOR 310)	* (1)	FOR 411L	1
	Gen. Ed. 6 (Diversity)	3	Gen. Ed. 6 (Diversity)	3
	TOTAL	15-(*16)	TOTAL	15
SUMMER	♣ NOTE: While not required, it is strongly recommended that students complete THREE (3) HOURS of FOR 349: Applied Learning in Forensic Science in a Forensic Laboratory. Students interested in the internship must complete FOR 310 training for Forensic Internship before taking FOR 349.		(3)	
Senior Year	BIO 531 (fall only)	4	† BIO/FOR Restricted Elective	3
	CHE 570	4	Gen. Ed. 5A (History)	3
	FOR 465W	3	Gen. Ed. 5B (Soc. & Behav. Sci.)	3
	FOR 499 (ACCT) (fall only)	3	Free Elective	4
	TOTAL	14	TOTAL	13
TOTAL HOURS TO DEGREE COMPLETION		120 – (* 124)		

* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division CHE and FOR courses. BIO 111, 320, and/or 315; CHE 361. See University catalog for details.
§ A preparatory course in mathematics (MAT 122) may be required before admission to MAT 234.

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. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.g. HUM 300W).

Applied Critical & Creative Thinking (ACCT) Requirement: Forensic Sciences majors will fulfill ACCT with FOR 499. (Credit hours are incorporated into program requirements.)

Course Number	Course Name
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (40)	
ASO 100C	Student Success Seminar for Chemistry (1)
CORE COURSE REQUIREMENTS (44)	
[CHE 111	General Chemistry I
[CHE 111L	General Chemistry Lab I (1)
[CHE 112	General Chemistry II
[CHE 112L	General Chemistry Lab II (1)
[CHE 325	Analytical Chemistry
[CHE 325L	Analytical Chemistry Lab (2)
[CHE 361	Organic Chemistry I
[CHE 361L	Organic Chemistry Lab I (1)
[CHE 362	Organic Chemistry II
[CHE 362L	Organic Chemistry Lab II (1)
CHE 430	Biochemistry of Macromolecules
CHE 570	Biophysical Chemistry (4)
FOR 301	Intro. to Forensic Science
FOR 401	Forensic Professional Practice
[FOR 411	Instrumental Analysis
[FOR 411L	Forensic Instrumental Lab (1)
FOR 465W	Expert Witness Testimony
FOR 499	Forensic Science Capstone
<i>Bracketed items must/should be taken concurrently.</i>	
FORENSIC BIOLOGY CONCENTRATION REQUIREMENTS (20)	
BIO 315	Genetics (4)
BIO 320	Principles of Microbiology (4)
BIO 531	Principles of Molecular Biology (4)
CHE 432	Biochemistry Laboratory (1)
[FOR 331	DNA Profiling
[FOR 331L	DNA Profiling Lab (1)
† PLUS THREE (3) HOURS selected from the following (restricted elective):	
BIO 527	Immunology
BIO 528	Virology
BIO 533	Bioinformatics: Principles & Apps.
BIO 546	Histology (4) (spring only)
FOR 349	Applied Learning in Forensic Science (0.5-8)
SUPPORTING COURSE REQUIREMENTS (12)	
⁶ BIO 111	Cell and Molecular Biology (4)
⁶ MAT 234 <i>or</i> 234H	Calculus I (4) <i>or</i> Honors Calculus I (4)
⁶ PHY 131 <i>or</i>	College Physics I (5)
⁶ PHY 201	University Physics I (5)
PHY 132 <i>or</i>	College Physics II (5)
PHY 202	University Physics II (5)
STA 270	Applied Statistics I
FREE ELECTIVES (4)	

All courses listed above are worth 3 credit hrs. unless otherwise noted.

⁶ Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.