

CURRICULUM GUIDE
Forensic Science, B. S. (Forensic Biology Concentration)
2019-2020

Website: www.forensicscience.eku.edu
 Email Contact: forensics@eku.edu

Department of Chemistry
 521 Lancaster Ave.
 4126 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	SCO 100C 1 § BIO 111 (fulfills Gen. Ed. 4) 4 FOR 301 3 § § MAT 234 (fulfills Gen. Ed. 2) 4 Gen. Ed. 1A (ENG 101) 3	BIO 112 4 CHE 111 3 CHE 111L 1 STA 215 <i>or</i> 270 3-4 Gen. Ed. 1B (ENG 102) 3
	TOTAL 15	TOTAL 14-15
Sophomore Year	BIO 315 4 CHE 112 3 CHE 112L 1 FOR 401 3 § PHY 131 <i>or</i> 201 (fulfills Gen. Ed. 4) 5	CHE 361 3 CHE 361L 1 FOR 331 3 FOR 331L 1 PHY 132 <i>or</i> 202 5 Gen. Ed. 1C (Oral Comm.) 3
	TOTAL 16	TOTAL 16
Junior Year	BIO 320 4 CHE 362 3 CHE 362L 1 FOR 451 2 FOR 451L 1 †Restricted Elective (FOR 310 recommended) 1 Gen. Ed. 3A (Arts) 3	BIO 331 3 CHE 432 1 CHE 430 3 PLS 316 3 †Restricted Elective 3 Gen. Ed. 6 (Diversity) 3
	TOTAL 15	TOTAL 16
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.	
Senior Year	FOR 465W 3 FOR 499 (ACCT) (fall only) 3 †Restricted Elective 3 Gen. Ed. 5A (History) 3 Gen. Ed. 6 (Diversity) 3	BIO 531 4 †Restricted Elective 3 Gen. Ed. 3B (Humanities) 3 Gen. Ed. 5B (Soc. & Behav. Sci.) 3
	TOTAL 15	TOTAL 13
TOTAL HOURS TO DEGREE COMPLETION		120 – (* 123)

* **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 (37)	
SCO 100C	Student Success Seminar for Chemistry (1)
CORE COURSE REQUIREMENTS (37)	
[CHE 111 [CHE 111L [CHE 112 [CHE 112L [CHE 361 [CHE 361L [CHE 362 [CHE 362L CHE 430 FOR 301 FOR 331 FOR 401 [FOR 451 [FOR 451L FOR 465W FOR 499	General Chemistry I (3) General Chemistry Lab I (1) General Chemistry II (3) General Chemistry Lab II (1) Organic Chemistry I (3) Organic Chemistry Lab I (1) Organic Chemistry II (3) Organic Chemistry Lab II (1) Biochemistry of Macromolecules (3) Intro. to Forensic Science (3) DNA Profiling (3) Forensic Professional Practice (3) Forensic Microscopic Analysis (2) Forensic Microscopy Lab (1) Expert Witness Testimony (3) Forensic Science Capstone (3)
<i>Bracketed items must/should be taken concurrently.</i>	
FORENSIC BIOLOGY CONCENTRATION REQUIREMENTS (27)	
BIO 315 BIO 320 *BIO 331 BIO 531 CHE 432 FOR 331L	Genetics (4) Principles of Microbiology (4) Cell Biology (3) Principles of Molecular Biology (4) Biochemistry Laboratory (1) DNA Profiling Lab (1)
† PLUS TEN (10) HOURS selected from the following (restricted elective):	
BIO 527 BIO 528 BIO 533 *BIO 535 BIO 546 [CHE 325 <i>and</i> [CHE 325L CHE 520 <i>or</i> CHE 720 FOR 310 FOR 349 [FOR 411 <i>and</i> [FOR 411L [FOR 412 <i>and</i> [FOR 412L FOR 442 FOR 442L FOR 460 FOR 490	Immunology (3) Virology (3) Bioinformatics: Principles & Apps. (3) Pathogenic Microbiology Histology (4) (spring only) Analytical Chemistry (3) Analytical Chemistry Lab (2) Mass Spectrometry (3) (spring only) Mass Spectrometry (3) (spring only) Training for Forensic Internships (1) Applied Learning in Forensic Science (0.5-8) Instrumental Analysis (3) Forensic Instrumental Lab (1) Forensic Trace Evidence (3) (spring only) Forensic Trace Evidence Lab (1) (spring only) Drugs and Toxicology (3) (spring only) Drugs and Toxicology Laboratory (1) (spring only) Selected Topics in Forensic Science (1-3) Introduction to Research (1-3)
SUPPORTING COURSE REQUIREMENTS (19-20)	
§ BIO 111 BIO 112 § MAT 234 § PHY 131 <i>or</i> § PHY 201 PHY 132 <i>or</i> PHY 202 PLS 316 STA 215 <i>or</i> STA 270	Cell and Molecular Biology (4) Ecology and Evolution (4) Calculus I (4) College Physics I (5) University Physics I (5) College Physics II (5) University Physics II (5) Criminal Evidence (3) Introduction to Statistical Reasoning (3) Applied Statistics I (4)

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