

# CURRICULUM GUIDE

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

Website: [www.forensicscience.eku.edu](http://www.forensicscience.eku.edu)

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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
<b>Freshman Year</b>	ASO 100C 1	<sup>6</sup> BIO 111 (fulfills Gen. Ed. 4) 4
	CHE 111 3	CHE 112 3
	CHE 111L 1	CHE 112L 1
	§ <sup>6</sup> MAT 234 <i>or</i> 234H (fulfills Gen. Ed. 2) 4	FOR 301 3
	Gen. Ed. 1A (ENG 101 or 105) 3	Gen. Ed. 1B (ENG 102) 3
	Gen. Ed. 3A (Arts) 3	
	<b>TOTAL 15</b>	<b>TOTAL 14</b>
<b>Sophomore Year</b>	CHE 361 3	CHE 362 3
	CHE 361L 1	CHE 362L 1
	<sup>6</sup> PHY 131 <i>or</i> 201 (fulfills Gen. Ed. 4) 5	CHE 325 3
	STA 270 3	CHE 325L 2
	Gen. Ed. 1C (Oral Comm.) 3	FOR 401 3
		PHY 132 <i>or</i> 202 5
	<b>TOTAL 15</b>	<b>TOTAL 17</b>
<b>Junior Year</b>	<sup>†</sup> (FOR 310) 1	<sup>†</sup> (1) FOR 412 2
	FOR 411 3	FOR 412L 1
	FOR 411L 1	FOR 442 3
	FOR 440 3	FOR 442L 1
	FOR 451 2	FOR 475 3
	FOR 451L 1	Free Elective 3
	Gen. Ed. 6 (Diversity) 3	
	<b>TOTAL 13-(<sup>†</sup>14)</b>	<b>TOTAL 13</b>
<b>SUMMER</b>	<sup>‡</sup> <b>NOTE:</b> While not required, it is strongly recommended that students complete <b>THREE (3) HOURS</b> 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. <b>(3)</b>	
<b>Senior Year</b>	CHE 430 (fall only) 3	CHE 570 4
	FOR 465W (fall only) 3	<sup>†</sup> CHE/FOR Restricted Elective (FOR 349 recommended) 3
	FOR 499 (ACCT) (fall only) 3	Gen. Ed. 3B (Humanities) 3
	Gen. Ed. 5B (Soc. & Behav. Sci.) 3	Gen. Ed. 5A (History) 3
	Gen. Ed. 6 (Diversity) 3	Wellness 3
		Free Elective 2
	<b>TOTAL 15</b>	<b>TOTAL 18</b>
	<b>TOTAL HOURS TO DEGREE COMPLETION 120 – (<sup>†</sup>124)</b>	

\* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division CHE and FOR courses. 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
<b>GENERAL EDUCATION &amp; UNIVERSITY REQUIREMENTS (40)</b>	
ASO 100C	Student Success Seminar for Chemistry (1)
<b>CORE COURSE REQUIREMENTS (44)</b>	
[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>	
<b>FORENSIC CHEMISTRY CONCENTRATION REQUIREMENTS (19)</b>	
[FOR 412	Forensic Trace Evidence (2)
[FOR 412L	Forensic Trace Evidence Lab (1)
FOR 440	Drug Chemistry
[FOR 442	Forensic Analytical Toxicology
[FOR 442L	Forensic Analytical Toxicology Lab (1)
[FOR 451	Forensic Microscopic Analysis (2)
[FOR 451L	Forensic Microscopy Lab (1)
FOR 475	Mass Spectrometry
<sup>†</sup> <b>PLUS THREE (3) HOURS</b> selected from the following (restricted elective):	
CHE 349	Applied Learning in Chemistry (0.5-8)
CHE 349 A-N	Cooperative Study: Chemistry (0.5-8)
CHE 432	Biochemistry Laboratory (1)
CHE 450	Inorganic Chemistry
CHE 501	Chemtopics (1-3)
CHE 515	Synthetic & Analytical Methods (5)
FOR 331	DNA Profiling
FOR 331L	DNA Profiling Lab (1)
FOR 349	Applied Learning in Forensic Science (0.5-8)
FOR 460	Special Topics in forensic Science (1-3)
<b>SUPPORTING COURSE REQUIREMENTS (12)</b>	
<sup>6</sup> BIO 111	Cell and Molecular Biology (4)
<sup>6</sup> MAT 234 <i>or</i> 234H	Calculus I (4) <i>or</i> Honors Calculus I (4)
<sup>6</sup> PHY 131 <i>or</i>	College Physics I (5)
<sup>6</sup> 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
<b>FREE ELECTIVES (5)</b>	

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

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