

**CURRICULUM GUIDE**  
**Forensic Science, B.S. (Forensic Chemistry Concentration)**  
**2021-2022**

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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>	SCO 100C 1 CHE 111 3 CHE 111L 1 FOR 301 3 § <sup>6</sup> MAT 234 (fulfills Gen. Ed. 2) 4 Gen. Ed. 1A (ENG 101 or 105) 3 <b>TOTAL 15</b>	<sup>6</sup> BIO 111 (fulfills Gen. Ed. 4) 4 CHE 112 3 CHE 112L 1 *STA 215 <i>or</i> 270 3-4 Gen. Ed. 1B (ENG 102) 3 Free Electives 0-1 <b>TOTAL 15</b>
<b>Sophomore Year</b>	CHE 361 3 CHE 361L 1 FOR 401 1 <sup>6</sup> PHY 131 <i>or</i> 201 (fulfills Gen. Ed. 4) 5 Gen. Ed. 5B (Soc. & Behav. Sci.) 3 BIO 112 4 <b>TOTAL 17</b>	CHE 362 3 CHE 362L 1 CHE 325 3 CHE 325L 2 PHY 132 <i>or</i> 202 5 <b>TOTAL 14</b>
<b>Junior Year</b>	FOR 411 3 FOR 411L 1 FOR 451 (fall only) 2 FOR 451L (fall only) 1 †CHE/FOR Restricted Elective (FOR 310 recommended) 1 Gen. Ed. 6 (Diversity) 3 *Free Elective 2-3 <b>TOTAL 13-14</b>	FOR 331 (spring only) 3 FOR 412 (spring only) 3 FOR 412L (spring only) 1 FOR 442 (spring only) 3 FOR 442L (spring only) 1 Gen. Ed. 3A (Arts) 3 <b>TOTAL 14</b>
<b>SUMMER</b>	† <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 3 FOR 465W (fall only) 3 FOR 499 (ACCT) (fall only) 3 Gen. Ed. 6 (Diversity) 3 Gen. Ed. 1C (Oral Comm.) 3 <b>TOTAL 15</b>	CHE 520 (spring only) 3 CHE 570 <i>or</i> 770 (spring only) 4 †CHE/FOR Restricted Elective 3 Gen. Ed. 3B (Humanities) 3 Gen. Ed. 5A (History) 3 <b>TOTAL 16</b>
<b>TOTAL HOURS TO DEGREE COMPLETION</b>		<b>120</b>

\* 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 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 (37)</b>	
SCO 100C	Student Success Seminar for Chemistry (1)
<b>CORE COURSE REQUIREMENTS (35)</b>	
[ CHE 111	General Chemistry I (3)
[ CHE 111L	General Chemistry Lab I (1)
[ CHE 112	General Chemistry II (3)
[ CHE 112L	General Chemistry Lab II (1)
[ 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)
FOR 465W	Expert Witness Testimony (3) (fall only)
FOR 499	Forensic Science Capstone (3) (fall only)
<i>Bracketed items must/should be taken concurrently.</i>	
<b>FORENSIC CHEMISTRY CONCENTRATION REQUIREMENTS (28)</b>	
[ CHE 325	Analytical Chemistry (3)
[ CHE 325L	Analytical Chemistry Lab (2)
CHE 520 <i>or</i>	Mass Spectrometry (3) (spring only)
CHE 720	Mass Spectrometry (3) (spring only)
CHE 570 <i>or</i>	Biophysical Chemistry I (4)
CHE 770	Biophysical Chemistry I (4)
[ CHE 425 <i>and</i>	Instrumental Analysis (3)
[ CHE 425L <i>OR</i>	Instrumental Analysis Lab (1)
[ FOR 411 <i>and</i>	Instrumental Analysis (3)
[ FOR 411L	Forensic Instrumental Lab (1)
[ FOR 412	Forensic Trace Evidence (3) (spring only)
[ FOR 412L	Forensic Trace Evidence Lab (1) (spring only)
[ FOR 442	Forensic Toxicology & Drugs (3) (spring only)
[ FOR 442L	Drugs & Toxicology Lab (1) (spring only)
† <b>PLUS FOUR (4) 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) (spring only)
CHE 450	Inorganic Chemistry (3) (fall only)
CHE 501	Chemtopics (1-3)
CHE 501L	Chemtopics Lab (1)
FOR 310	Preparation for Internship (1) (fall only)
FOR 330	Bloodstain Pattern Analysis (1)
FOR 349	Applied Learning in Forensic Science (0.5-8)
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)
<b>SUPPORTING COURSE REQUIREMENTS (16-17)</b>	
<sup>6</sup> BIO 111	Cell and Molecular Biology (4)
BIO 112	Ecology and Evolution (4)
<sup>6</sup> MAT 234	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 215 <i>or</i>	Introduction to Statistical Reasoning (3)
STA 270	Applied Statistics I (4)
<b>FREE ELECTIVES (3-4)</b>	

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