

Department of Chemistry  
Northern Kentucky University

MAJOR: Bachelor of Science in Chemistry, Forensics Track

	Fall Semester		Spring Semester	
<p style="text-align: center;"><b>FIRST YEAR</b></p> <ul style="list-style-type: none"> <li>Meet with freshman specialist; map personal four-year plan.</li> <li>Make use of student support: tutoring, SI, writing center, mathematics lab.</li> <li>Investigate undergraduate research, co-op option.</li> <li>Join student clubs.</li> </ul>	CHE 120/L General Chemistry I with Lab	4	CHE 121/L General Chemistry II with Lab	4
	MAT 129 Calculus I <sup>a</sup>	4	MAT 229 Calculus II <sup>a</sup>	5
	Gen Ed: Written Communication	3	Gen Ed: Oral Communication	3
	BIO 150/L Introductory Biology I with Lab	4	BIO 151/L Introductory Biology II with Lab	4
	CHE 125 Intro to Chem and Biochem	1		
	<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>16</b>
<p style="text-align: center;"><b>SECOND YEAR</b></p> <ul style="list-style-type: none"> <li>Meet with your new forensics advisor.</li> <li>Join research group.</li> <li>Investigate forensic internship opportunities to gain experience that will be critical in obtaining later employment.</li> </ul>	CHE 310/L Organic Chemistry I with Lab	4	CHE 311/L Organic Chemistry II with Lab	4
	PHY 211 General Physics with Lab <sup>b</sup>	4	PHY 213 General Physics II with Lab <sup>b</sup>	4
	JUS 101 Introduction to Criminal Justice	3	CHE 391W Chemical Information and Writing	3
	STA 205	3	BIO 349/L Genetics	4
	Elective	1		
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>
<p style="text-align: center;"><b>THIRD YEAR</b></p> <ul style="list-style-type: none"> <li>Work closely with advisor to fine tune career plans.</li> <li>Begin to investigate graduate/professional programs.</li> <li>Register for entrance exams (GRE, MCAT, PCAT).</li> <li>Work with Career Services to polish resume, apply for co-ops.</li> <li>Continue working to gain forensic co-op/internship experience.</li> </ul>	CHE 300 Careers in Chemistry	1	CHE 350/L Instrumental Analysis with Lab <sup>d</sup>	5
	CHE 482/L Biochemistry I with lab	4	Gen Ed Course	3
	BIO 400/L Molecular Biology	4	JUS 231 Race, Gender and the Law	3
	JUS 204 Criminal Investigation	3	JUS 320 Adv Crime Scene Tech/Criminalistics <sup>c</sup>	3
	CHE 340/L Analytical Chemistry with Lab	5		
	<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>14</b>
<p style="text-align: center;"><b>FOURTH YEAR</b></p> <ul style="list-style-type: none"> <li>Attend job fairs, conduct mock interviews with Career Services.</li> <li>Contact professors for letters of recommendation.</li> <li>Gather application materials, apply early to desired programs.</li> <li>Plan and complete senior seminar, honors thesis.</li> <li>Celebrate your graduation!</li> </ul>	CHE 360 Physical Chemistry I	3	CHE 361 Physical Chemistry II	3
	CHE 400 Chemistry Seminar	1	CHE 362L Physical Chemistry Laboratory	2
	JUS 302 Criminal Law <sup>c</sup>	3	JUS 404 Evidence Prep/Courtroom Testimony <sup>c</sup>	3
	Gen Ed course	3	Gen Ed course	3
	Gen Ed course	3	JUS 303 Crim Procedure <sup>c</sup>	3
	<b>TOTAL</b>	<b>14</b>	<b>TOTAL</b>	<b>14</b>
<b>GRAND TOTAL OF CREDITS</b>			<b>120</b>	

**Notes:**

<sup>a</sup>Alternatively, the calculus requirement can be met by taking Calculus A, B, and C (MAT 128, 227, and 228).

<sup>b</sup>Alternatively, University Physics I and II (PHY 220 and PHY 222) may be taken. If these courses are chosen, they can be taken spring/fall or fall/fall; PHY 222 is only offered in the fall, but PHY 220 is offered fall and spring.

<sup>c</sup>Students are strongly encouraged to obtain the minor in criminalistics to complement their B.S., chemistry-forensics track degree. In addition to JUS 101 and JUS 204, which are required for the forensics track, the following courses are needed to complete the criminalistics minor: JUS 231, JUS 302, JUS 303, JUS 320 and JUS 404. Because of the complexity of scheduling this major/minor combination, students are urged to work extremely closely with their advisors.

<sup>d</sup>Students may alternatively choose BIO 455 Scanning Electron Microscopy in place of instrumental chemistry (CHE 350 and CHE 350L); in this case, students will need to add one elective hour to their program to reach the 120 hours required to graduate.

All majors should begin their mathematics sequence in order to complete calculus II as soon as possible. All majors should also take the chemistry writing course (CHE 391W) as soon as they complete their first 300-level or above chemistry course (usually CHE 310 or CHE 340), as this course is a prerequisite for many other 300- and 400- level lab courses. In completing the requirements for the B.S. chemistry-forensics track degree, students also satisfy general education requirements in communication-written II (CHE 391W), natural sciences (CHE 120 and CHE 120L, PHY 211 or PHY 220), mathematics (MAT 128 or MAT 129) and individual and society (JUS 101). Students choosing the criminalistics minor additionally satisfy global viewpoints (JUS 231).