

**CURRICULUM GUIDE**  
**Chemistry, B.S. (Chemistry Concentration)**  
**2022-2023**

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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 112	3
	CHE 111	3	CHE 112L	1
	CHE 111L	1	Gen. Ed. 1B (ENG 102)	3
	§ <sup>6</sup> MAT 234 (fulfills Gen. Ed. 2)	4	Gen. Ed. 1C (Oral Comm.)	3
	Gen. Ed. 1A (ENG 101)	3	Gen. Ed. 5B (Soc. & Behav. Sci.)	3
	Gen. Ed. 3A (Arts)	3	Free Elective	4
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>17</b>
<b>Sophomore Year</b>	CHE 250	2	CHE 325	3
	CHE 361	3	CHE 325L	2
	CHE 361L	1	CHE 362	3
	CHE 385W	3	CHE 362L	1
	¶ PHY 131 or PHY 201 (fulfills Gen. Ed. 4)	5	PHY 132 or PHY 202	5
	Free Elective	2		
	<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>14</b>
<b>Junior Year</b>	¶ BIO 111 (fulfills Gen. Ed. 4)	4	CHE 411 (ACCT), 432, 495A/B	
	CHE 425 (fall only)	3	(ACCT), or 501L	1
	CHE 425L (fall only)	1	CHE 430	3
	CHE 570	4	Gen. Ed. 5A (History)	3
	‡ CHE/FOR (400/500 level)	3	Gen. Ed. 6 (Diversity)	3
			Free Elective	4
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>14</b>
<b>Senior Year</b>	CHE 450	3	CHE 485	1
	‡ CHE/FOR (400/500 level)	3	‡ CHE/FOR (400/500 level)	2
	Gen. Ed. 3B	3	Gen. Ed. 6 (Diversity)	3
	Free Elective	3	Free Elective	3
	Free Elective	3	Free Elective	3
			Free Elective	2
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>14</b>
<b>HOURS TO DEGREE COMPLETION</b>		<b>120</b>		

Course Number	Course Name
<b>GENERAL EDUCATION &amp; UNIVERSITY REQUIREMENTS (37)</b>	
SCO 100C	Student Success Seminar for Chemistry (1)
<b>CORE COURSE REQUIREMENTS (26)</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 250	Descriptive Inorganic Chemistry (2)
[ CHE 325	Analytical Chemistry (3)
[ CHE 325L	Analytical Chemistry Lab (2)
[ 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)
Bracketed items must be taken concurrently.	
<b>CHEMISTRY CONCENTRATION REQUIREMENTS (24)</b>	
CHE 385W	Chemical Literature (writing intensive) (3)
[ CHE 425	Instrumental Analysis (3)
[ CHE 425L	Instrumental Analysis Lab (1)
CHE 450	Inorganic Chemistry (3)
CHE 485	Chemistry Seminar (1)
CHE 570	Biophysical Chemistry (4)
‡ PLUS ONE (1) HOUR selected from the following:	
CHE 411	Practicum (1)
CHE 432	Biochemistry Laboratory (1)
CHE 495A	Independent Chemical Research (1)
CHE 495B	Chemistry Lab. Independent Res. (1)
CHE 501L	Chemtopics Lab (1)
‡ PLUS EIGHT (8) HOURS from either 400 or 500 level CHE or FOR electives.	
<b>CHEMISTRY SUPPORTING COURSE REQUIREMENTS (9)</b>	
¶ BIO 111	Cell and Molecular Biology (4)
* § MAT 234	Calculus I (4)
¶ PHY 131 or	College Physics I (5)
* § PHY 201	University Physics I (5)
PHY 132 or	College Physics II (5)
* PHY 202	University Physics II (5)
<b>FREE ELECTIVES (24)</b>	

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

\* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division CHE courses. MAT 122 (see § below), 234, 244; PHY 201.

§ 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:** Chemistry majors will fulfill ACCT with: CHE 411, 495A, 495B, CHE 515/515L, or CED 499. (Credit hours are incorporated into program requirements.)