

CURRICULUM GUIDE
Chemistry, B.S. (Chemistry Concentration with ACS Certification)
2022-2023

Website: www.chemistry.eku.edu
 Email Contact: chemistry@eku.edu

Department of Chemistry
 521 Lancaster Ave.
 4126 New Science Bldg.
 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	CHE 112
	CHE 111	CHE 112L
	CHE 111L	MAT 244
	§ ⁶ MAT 234 (fulfills Gen. Ed. 2)	Gen. Ed. 1B (ENG 102)
	Gen. Ed. 1A (ENG 101)	Gen. Ed. 1C (Oral Comm.)
	Gen. Ed. 3A (Arts)	Gen. Ed. 5B (Social & Behav. Sci.)
	TOTAL	TOTAL
Sophomore Year	CHE 250	CHE 325
	CHE 361	CHE 325L
	CHE 361L	CHE 362
	MAT 254	CHE 362L
	§ ⁶ PHY 201 (fulfills Gen. Ed. 4)	PHY 202
	TOTAL	TOTAL
	Junior Year	§ ⁶ BIO 111 (fulfills Gen. Ed. 4)
CHE 385W		CHE 574
CHE 425 (fall only)		CHE 574L
CHE 425L (fall only)		Gen. Ed. 6 (Diversity)
Gen. Ed. 6 (Diversity)		Gen. Ed. 5A (History)
Free Elective		Free Elective
TOTAL		TOTAL
Senior Year	CHE 502	CHE 485
	CHE 450	CHE 515 (ACCT)
	CHE 575	CHE 515L
	CHE 575L	Free Elective
	Gen. Ed. 3B (Humanities)	Free Elective
	Free Elective	
	Free Elective	
TOTAL	TOTAL	
HOURS TO DEGREE COMPLETION		120

Course Number	Course Name
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)	
SCO 100C	Student Success Seminar for Chemistry (1)
CORE COURSE REQUIREMENTS (26)	
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.	
CHEMISTRY CONCENTRATION REQUIREMENTS (25)	
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 502	Polymers and Particles (1)
CHE 515	Synthetic & Analytical Methods (3)
CHE 515L	Synthetic & Analytical Methods Lab (2)
CHE 574	Physical Chemistry I (3)
CHE 574L	Physical Chemistry Lab I (1)
CHE 575	Physical Chemistry II (3)
CHE 575L	Physical Chemistry Lab II (1)
CHEMISTRY SUPPORTING COURSE REQUIREMENTS (17)	
§ ⁶ BIO 111	Cell and Molecular Biology (4)
* ⁶ MAT 234	Calculus I (4)
*MAT 244	Calculus II (4)
*MAT 254	Calculus III (4)
* ⁶ PHY 201	University Physics I (5)
*PHY 202	University Physics II (5)
For ACS certification, CHE 515, 574/574L, 575/575L, PHY 201(5) and PHY 202(5) along with additional courses in calculus, MAT 244(4) and, MAT 245(4) or are required.	
FREE ELECTIVES (15)	

⁶ 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, 515/515L, CED 499. (Credit hours are incorporated into program requirements.)