

CURRICULUM GUIDE
Chemistry, B.A. (Chemistry Concentration)
2017-2018

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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	
Freshman Year	SCO 100C	1	CHE 112	3
	CHE 111	3	CHE 112L	1
	CHE 111L	1	Gen. Ed. 1B (ENG 102)	3
	§ ⁶ MAT 234 (fulfills Gen. Ed. 2)	4	Gen. Ed. 1C (Oral Comm.)	3
	Gen. Ed. 1A (ENG 101)	3	Gen. Ed. 4 (Nat. Sci.)	3
	Gen. Ed. 3A (Arts)	3	Free Elective	3
	TOTAL	15	TOTAL	16
Sophomore Year	CHE 361	3	CHE 325	3
	CHE 361L	1	CHE 325L	2
	CHE 385W	3	CHE 362	3
	¶ PHY 131 <u>or</u> 201 (fulfills Gen. Ed. 4)	5	CHE 362L	1
	Gen. Ed. 3B (Humanities)	3	PHY 132 <u>or</u> 202	5
	TOTAL	15	TOTAL	14
Junior Year	CHE 570	4	CHE 425	3
	Gen. Ed. 5B (Soc. & Behav. Sci.)	3	CHE 425L	1
	Gen. Ed. 5A (History)	3	☞ CHE 431 (spring only) (<u>or</u> 430 (fall only))	3
	Free Elective (upper division)	3	Gen. Ed. 6 (Diversity)	3
	Free Elective	3	Free Elective	3
			Free Elective	3
	TOTAL	16	TOTAL	16
Senior Year	CHE 484	1	† CHE /FOR (400/500 level) Elective (ACCT recommended)	3
	CHE 450	3	† CHE /FOR (400/500 level) Elective	3
	† CHE /FOR (400/500 level) Elective	3	Free Elective	3
	Gen. Ed. 6 (Diversity)	3	Free Elective	3
	Free Elective	3	Free Elective	3
			Free Elective	3
	TOTAL	13	TOTAL	15
TOTAL HOURS TO DEGREE COMPLETION		120		

* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division CHE courses. MAT 122 (see § below); PHY 131 and/or 201.

§ A preparatory course in mathematics (MAT 122) may be required before admission to MAT 234.

☞ CHEM 431 is taught in SPRING ONLY and CHE 430 is taught in FALL ONLY. If you prefer to take CHE 430, a free elective can be switched from the Fall Semester of the Junior year.

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. If 300 level classes are taken for Gen. Ed., they can be used to fulfill the 42 hours instead of upper division free electives.

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 select one of the following (based on specific concentration): combination of CHE 349, 349 A-N, 411, 495A, 495B, FMT 349, 349 A-N, 495 and/or FRT 549 for 3 credit hours, HON 420, CHE 515, or CED 499. (Credit hours are incorporated into program requirements.)

Course Number	Course Name
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)	
SCO 100C	Student Success Seminar for Chemistry (1)
CORE COURSE REQUIREMENTS (28)	
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 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 385W	Chemical Literature (writing intensive) (3)
CHE 570	Biophysical Chemistry I (4)
Bracketed items must be taken concurrently.	
CHEMISTRY CONCENTRATION REQUIREMENTS (20)	
CHE 425	Instrumental Analysis (3)
CHE 425L	Instrumental Analysis Lab (1)
CHE 430 <u>or</u> CHE 431	Biochemistry of Macromolecules (3)
CHE 431	Metabolic Biochemistry (3)
CHE 450	Inorganic Chemistry (3)
CHE 484	Chemistry Colloquium (1)
† PLUS NINE (9) HOURS of either 400 or 500 level CHE or FOR courses (If CHE495A and/or 495B is/are taken, only 3 hours can be applied to the major. CHE 515 is recommended for students interested in graduate school.)	
CHEMISTRY CONCENTRATION SUPPORTING COURSE REQUIREMENTS (8)	
* ⁶ MAT 234 <u>or</u> * ⁶ MAT 234H	Calculus I (4)
* ⁶ PHY 131 <u>or</u> * ⁶ PHY 201	Honors Calculus I (4)
* ⁶ PHY 131 <u>or</u> * ⁶ PHY 201	College Physics I (5)
* ⁶ PHY 132 <u>or</u> * ⁶ PHY 202	University Physics I (5)
* ⁶ PHY 132 <u>or</u> * ⁶ PHY 202	College Physics II (5)
* ⁶ PHY 132 <u>or</u> * ⁶ PHY 202	University Physics II (5)
FREE ELECTIVES (27)	

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