

CURRICULUM GUIDE
Chemistry, B.S. (Chemistry (ACS Certified) Concentration)
2016-2017

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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	ASO 100C	1	CHE 112	3
	CHE 111	3	CHE 112L	1
	CHE 111L	1	MAT 244 <i>or</i> 244H	4
	§ ⁶ MAT 234 <i>or</i> 234H (fulfills Gen. Ed. 2)	4	Gen. Ed. 1B (ENG 102)	3
	Gen. Ed. 1A (ENG 101)	3	Gen. Ed. 1C (Oral Comm.)	3
	Gen. Ed. 3A (Arts)	3		
	TOTAL	15	TOTAL	14
Sophomore Year	CHE 361	3	CHE 325	3
	CHE 361L	1	CHE 325L	2
	CHE 385	2	CHE 362	3
	MAT 254 <i>or</i> 254H	4	CHE 362L	1
	¶ PHY 201 (fulfills Gen. Ed. 4)	5	PHY 202	5
			Gen. Ed. 3B (Humanities)	3
	TOTAL	15	TOTAL	17
Junior Year	CHE 425	3	CHE 431 (spring only) (<i>or</i> 430 fall only)	3
	CHE 425L	1	CHE 575	3
	CHE 574	3	CHE 575L	1
	CHE 574L	1	Gen. Ed. 6 (Diversity)	3
	Gen. Ed. 6 (Diversity)	3	Gen. Ed. 5B (Soc. & Behav. Sci.)	3
	¶ BIO 111 (fulfills Gen. Ed. 4)	4	Free Elective	3
	TOTAL	15	TOTAL	16
Senior Year	CHE 484	1	CHE 485	1
	CHE 450	3	CHE 515 (ACCT)	5
	‡ CHE/FOR (400/500 level) Elective	3	† CHE/FOR Lab Elective	1
	Gen. Ed. 5A (History)	3	Wellness	3
	Free Elective	3	Free Elective	3
	Free Elective	2		
	TOTAL	15	TOTAL	13
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), 234, 234H, 244 and/or 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 515. (Credit hours are incorporated into program requirements.)

Course Number	Course Name
GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (40)	
ASO 100C	Student Success Seminar for Chemistry (1)
CORE COURSE REQUIREMENTS (37)	
[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 385	Chemical Literature (2)
[CHE 425	Instrumental Analysis (3)
[CHE 425L	Instrumental Analysis Lab (1)
CHE 450	Inorganic Chemistry (3)
CHE 484	Chemistry Colloquium (1)
CHE 485	Chemistry Seminar (1)
CHE 515	Synthetic & Analytical Methods (5)
<i>Bracketed items must be taken concurrently.</i>	
CHEMISTRY REQUIREMENTS (15)	
CHE 430 <i>or</i>	Biochemistry of Macromolecules (3)
CHE 431	Metabolic Biochemistry (3)
[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)
† PLUS ONE (1) HOUR selected from the following (Lab elective):	
CHE 432	Biochemistry Laboratory (1)
CHE 495A	Independent Chemical Research (1)
CHE 495B	Chemistry Lab. Independent Res. (1)
CHE 501L	Chemtopics Lab (1)
FOR 442L	Drugs and Toxicology Lab (1)
‡ PLUS THREE (3) HOURS from either 400 or 500 level CHE or FOR electives. (At least 3 hours of CHE 495A and/or 495B is recommended) (CHE/FOR Electives).	
CHEMISTRY SUPPORTING COURSE REQUIREMENTS (17)	
¶ BIO 111	Cell and Molecular Biology (4)
* § MAT 234 <i>or</i>	Calculus I (4)
MAT 234H	Honors Calculus (4)
* MAT 244 <i>or</i>	Calculus II (4)
MAT 244H	Honors Calculus II (4)
* MAT 254 <i>or</i>	Calculus III (4)
MAT 254H	Honors Calculus III (4)
* § PHY 201	College Physics I (5)
* PHY 202	College Physics II (5)
FREE ELECTIVES (11)	

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