

CURRICULUM GUIDE
Chemistry, B.S. (Chemistry Concentration with ACS Certification)
2023-2024

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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		Course Number	Course Name
Freshman Year	SCO 100C	1	CHE 112	3	GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37)	
	CHE 111	3	CHE 112L	1	SCO 100C Student Success Seminar for Chemistry (1)	
	CHE 111L	1	MAT 244	4	CORE COURSE REQUIREMENTS (26)	
	§ ⁶ MAT 234 (fulfills Gen. Ed. 2)	4	Gen. Ed. 1B (ENG 102)	3	[CHE 111	General Chemistry I (3)
	Gen. Ed. 1A (ENG 101)	3	Gen. Ed. 1C (Oral Comm.)	3	[CHE 111L	General Chemistry Lab I (1)
	Gen. Ed. 3A (Arts)	3	Gen. Ed. 5B (Social & Behav. Sci.)	3	[CHE 112	General Chemistry II (3)
	TOTAL	15	TOTAL	17	[CHE 112L	General Chemistry Lab II (1)
Sophomore Year	CHE 250 (fall only)	2	CHE 325	3	CHE 250	Descriptive Inorganic Chemistry (2) (fall only)
	CHE 361	3	CHE 325L	2	[CHE 325	Analytical Chemistry (3)
	CHE 361L	1	CHE 362	3	[CHE 325L	Analytical Chemistry Lab (2)
	MAT 254	4	CHE 362L	1	[CHE 361	Organic Chemistry I (3)
	¶ PHY 201 (fulfills Gen. Ed. 4)	5	PHY 202	5	[CHE 361L	Organic Chemistry Lab I (1)
					[CHE 362	Organic Chemistry II (3)
	TOTAL	15	TOTAL	14	[CHE 362L	Organic Chemistry Lab II (1)
Junior Year	¶ BIO 111 (fulfills Gen. Ed. 4)	4	CHE 430	3	CHE 430	Biochemistry of Macromolecules (3)
	CHE 385	3	Gen. Ed. 6 (Diversity)	3	Bracketed items must be taken concurrently.	
	CHE 425	3	Gen. Ed. 5A (History)	3	CHEMISTRY CONCENTRATION REQUIREMENTS (25)	
	CHE 425L	1	Free Elective	3	CHE 385	Chemical Literature (writing intensive) (3)
	Gen. Ed. 6 (Diversity)	3			[CHE 425	Instrumental Analysis (3)
	Free Elective	2			[CHE 425L	Instrumental Analysis Lab (1)
	TOTAL	16	TOTAL	12	CHE 450	Inorganic Chemistry (3)
Senior Year	CHE 502	1	CHE 485	1	CHE 485	Chemistry Seminar (1)
	CHE 450	3	CHE 515	3	CHE 502	Polymers and Particles (1)
	CHE 574 (odd fall only)	3	CHE 515L	2	[CHE 515	Synthetic & Analytical Methods (3)
	CHE 574L (odd fall only)	1	CHE 575 (even spring only)	3	[CHE 515L	Synthetic & Analytical Methods Lab (2)
	Gen. Ed. 3B (Humanities)	3	CHE 575L (even spring only)	1	[CHE 574	Physical Chemistry I (3) (odd fall only)
	Free Elective	3	Free Elective	3	[CHE 574L	Physical Chemistry Lab I (1) (odd fall only)
	Free Elective	2	Free Elective	2	[CHE 575	Physical Chemistry II (3) (even spring only)
TOTAL	16	TOTAL	15	[CHE 575L	Physical Chemistry Lab II (1) (even spring only)	
					CHEMISTRY SUPPORTING COURSE REQUIREMENTS (17)	
					¶ BIO 111	Cell and Molecular Biology (4)
					¶ MAT 234	Calculus I (4)
					MAT 244	Calculus II (4)
					MAT 254	Calculus III (4)
					¶ 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)	
					¶ Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.	
HOURS TO DEGREE COMPLETION				120		

* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses.

§ 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.