CURRICULUM GUIDE Chemistry, B.S. (Chemistry Teaching Concentration) 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.

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	Fall Semester	Spring Semester		Course	Course Name
				Number	
e I	SCO 100C	1 EDF 203	3	GENERAL EDUCAT	TION & UNIVERSITY REQUIREMENTS (37)
Freshman		3 CED 100	0	SCO 100C	Student Success Seminar for Chemistry (1)
Year		^G SED 104 (<i>fulfills Gen. Ed. 6</i>)	3		
	-	4 CHE 112	3	CORE COURSE REG	QUIREMENTS (26)
	^G BIO 111 <u>or</u> 112 (fulfills Gen.	CHE 112L	1	[CHE 111	General Chemistry I (3)
		4 Gen. Ed. 1B (<i>ENG 102</i>)	3	CHE 111L	General Chemistry Lab I (1)
	Gen. Ed. 1A (<i>ENG 101</i>)	3 Gen. Ed. 1C (Oral Comm.)	3	CHE 112	General Chemistry II (3)
				CHE 112L	General Chemistry Lab II (1)
	1014		10	CHE 250	Descriptive Inorganic Chemistry (2)
	TOTAL 1		16	CHE 325 CHE 325L	Analytical Chemistry (3) Analytical Chemistry Lab (2)
C	EDF 219	3 EDC 300	3	CHE 361	Organic Chemistry I (3)
Sophomore		0 EDF 204	2	CHE 361L	Organic Chemistry Lab I (1)
Year		2 EMS 300	3	[CHE 362	Organic Chemistry II (3)
		3 CED 300	0.5	CHE 362L	Organic Chemistry Lab II (1)
		1 GLY 109	3	CHE 430	Biochemistry of Macromolecules (3)
	^G PHY 131 <u>or</u> 201 (fulfills Gen. Ed. 4)	5 PHY 132 or 202	5	Brac	cketed items must be taken concurrently.
				CHEMISTRY TEAC	HING CONCENTRATION REQUIREMENTS (8)
	30 hrs complete + apply to				
	professional education program			CHE 570	Biophysical Chemistry (4)
					HOURS from either 400 or 500 level CHE or FOR
	TOTAL	4 TOTAL	16.5		95 is taken, only 3 hours can be applied to the major).
	CHE 325	3 EDF 413	3	REQUIREMENTS (HING CONCENTRATION SUPPORTING COURSE
Junior		2 EMS 490	3	^G BIO 111 <u>or</u>	Cell and Molecular Biology (4)
Year	CHE 325L	3 CED 400	0.5	⁶ BIO 112	Ecology and Evolution (4)
i cai		1 CHE 430	3	GLY 109	Great Moments in Earth History (3)
		3 CHE 570	4	^G MAT 234	Calculus I (4)
		3 CHE 400/500 Electives	2	⁶ PHY 131 <u>or</u>	University Physics I (5)
			-	^G PHY 201	College Physics I (5)
				PHY 132 <u>or</u>	University Physics II (5)
				PHY 202	College Physics II (5)
	TOTAL	5 TOTAL	15.5	PROFESSIONAL EE	DUCATION REQUIREMENTS (37)
				EDC 300	Differentiation Inclusive Classrooms (3)
<u> </u>	ESE 561 (fall only)	3 CED 499	9	EDF 203	Educational Foundations (3)
Senior	o ,,	1 EMS 474	3	EDF 204	Emerging Instructional Technologies (2)
Year	o ,,	2	5	EDF 219 EDF 413	Human Development and Learning (3)
		3		EDF 413 EMS 300	Assessment in Education (3) Curriculum & Instructional Design (3)
		3		EMS 474	Disciplinary Literacy (3)
	. ,	3		EMS 490	Classroom & Behavior Management in P-12 (1-3
	,	-		ESE 561	Teaching Science in the Secondary Schools (3)
	APPLY FOR STUDENT TEACHING			^G SED 104	Special Education Introduction (3)
				PLUS ELEVEN (11)	HOURS of Clinical Experiences to include:
	TOTAL 1	5 TOTAL	12	CED 100	Clinical I: Intro to the Education Prof. (0)
			12	CED 200	Clinical II: Understanding the Learner (0)
				CED 300	Clinical III: Curriculum and Instruct. Des. (.5)
TOTAL HOURS TO DEGREE COMPLETION 120				CED 400	Clinical IV: Diagnosis & Perception (.5)
				CED 450	Clinical V: Practicing Teaching (1)
PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses. Student must have completed 30 hours by the end of the second semester and apply for admission to Professional Education Program.				CED 499	Supervised Student Teaching P-12 (9)
Must be completed before enrolling in CED 300 and applying to the Teacher Ed. program.					rriculum and passing the appropriate standardized
					I lead to certification to teach chemistry at the
				secondary educati	ion level.)

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.

requirements.

Refer to the University Catalog at http://www.catalogs.eku.edu/ regarding University and General Education

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