

Effective Fall 2021 to present

CHEMISTRY MAJOR - B.S. (CH-E) Secondary Education Concentration

First Year

Fall		Credits	Spring		Credits
CHEM 192	Freshman Chem. Seminar	0	MATH 122	Calculus II	3
CHEM 121	Chemical Principles I/Lab	4	CHEM 122	Chemical Principles II/Lab	4
MATH 121	Calculus I	3	EDUC 150	Educ. Psychology <u>G.E.</u>	3
WRIT 102	Research Writing, <u>G.E.</u>	3	PHYS 121	General Physics I/Lab	4
PSYC 101	Intro to Psyc. (Soc. Sci., <u>G.E.</u>)	3	CORE 113	First Year Seminar, <u>G.E.</u>	3
RLST 105	Franciscan. & Glob Iss, <u>G.E.</u>	3	CORE 104	Spring Comm. Enrich., <u>G.E.</u>	0
CORE 103	Fall Comm. Enrich., <u>G.E.</u>	0			
		16			17

Second Year

Fall			Spring		
MATH 221/306	Mathematics Elective	3	CHEM 222	Organic Chemistry II/Lab	4
CHEM 221	Organic Chemistry I/Lab	4	CHEM 251	Quant. Analysis/Lab	3
PHYS 122	General Physics II/Lab	4	EDUC 240	The Diverse Learner in Sec Set	3
EDUC 261	Linguistic Diversity*	3	CHEM 292	Sophomore Chem. Seminar	0
EDUC 205	Intro to Special Education	3	LIT XXX	Literature, <u>G.E.</u>	3
		17	PHIL 205	Reason & Response, G.E.	0
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Third Year

Fall			Spring		
CHEM 321	Physical Chemistry I/Lab	4	CHEM 322	Physical Chemistry II/Lab	4
CHEM 324	Inorganic Chemistry/Lab	4	CHEM 392	Junior Chem. Seminar	0
EDUC 430	General Methods: Sec	3	EDUC 429	Middle/SEC Methods	3
EDUC 333	Reading in Content Area	3	SOC SCI 3rd	Social Science (3 of 3), <u>G.E.</u>	3
PHIL 319	Phil, Ethics & Edu, <u>G.E.</u>	3	XXX	Elective	3
EXAM 301	Writing Comp. Exam, <u>G.E.</u>	0	XXX	Elective	3
		17			16

Fourth Year

Fall			Spring		
EDUC 451	Student Teaching	12	CHEM 323	Instrumental Analysis/Lab	3
CORE 407	Keystone Seminar, <u>G.E.</u>	3	CHEM 492	Chemistry Seminar	1
		15	FNAR	Fine Arts	3
			XXX	Elective	3
			XXX	Elective	3
			LANG	Language, <u>G.E.</u>	3
					16

Mathematics Elective

MATH 221 Calculus III (3 credits) or MATH 306 Differential Equations (3 credits)

*This course satisfies the General Education diversity requirement.

To obtain an ACS certified degree you must take the following classes: CHEM 121, 122, 192, 221, 222, 251, 292, 308, 321, 322, 323, 324, 392, 398/399 OR 499, 405, 492, and 6 credits of CHEM electives (305, 308, 401, 402, 404, 407, 410, 501).

Note: Sequence of courses may be altered with advisor's approval.