

Effective Fall 2021 to present

## CHEMISTRY MAJOR - B.S. (CH-EN)

### Environmental Chemistry

#### First Year

<u>Fall</u>		<u>Credits</u>	<u>Spring</u>		<u>Credits</u>
CHEM 121	Chemical Principles I/Lab	4	CHEM 122	Chemical Principles II/Lab	4
MATH 121	Calculus I	3	MATH 122	Calculus II	3
CHEM 192	Freshman Chem. Seminar	0	PHYS 121	General Physics I/Lab	4
WRIT 102	Research Writing, <u>G.E.</u>	3	CORE 113	First Year Seminar, <u>G.E.</u>	3
BIOL 110	Intro to Biology/Lab	4	RLST 105	Francis & Glob. Iss., <u>G.E.</u>	3
SOC SCI 1st	Social Science (1 of 3), <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

<u>Fall</u>			<u>Spring</u>		
CHEM 221	Organic Chemistry I/Lab	4	CHEM 222	Organic Chemistry II/Lab	4
XXX	Free Elective	3	CHEM 251	Quantitative Analysis/Lab	3
PHYS 122	General Physics II/Lab	4	CHEM 292	Sophomore Chem. Seminar	0
LIT XXX	Literature, <u>G.E.</u>	3	PHIL 205	Reason and Respons., <u>G.E.</u>	3
MATH 215/BIOL 315	Statistics/Biostatistics	3	HIST 259	Environmental History <u>G.E.</u>	3
		18	SOC SCI 2nd	Social Science (2 of 3), <u>G.E.</u>	3
					16

#### Third Year

<u>Fall</u>			<u>Spring</u>		
CHEM 321	Physical Chemistry I/Lab	4	XXX	Environ Chemistry Elective	3-4
BIOL 203	Ecology	4	CHEM 405	Biochemistry I/Lab	4
LANGXXX	Language <u>G.E.</u>	3	CHEM 499	Undergraduate Research	1-4
CHEM 206	Human Toxicology	3	CHEM 292	Junior Chem Seminar	0
PHIL 307	Environmental Ethics* <u>G.E.</u>	3	CHEM 305	Environ. Chemistry/Lab	4
EXAM 301	Writing Comp. Exam, <u>G.E.</u>	0	XXX	Elective	3
		17-18			15-18

#### Fourth Year

<u>Fall</u>			<u>Spring</u>		
CHEM 324	Inorganic Chemistry/Lab	4	CHEM 323	Instrumental Analysis/ L	3
XXX	Environ. Chem. Elective	3-4	CHEM 457	Chemistry and Society	3
XXX	Free Elective	3	XXX	Environ. Chem. Elective	3-4
XXX	Free Elective	3	SOC SCI 3rd	Social Science (3 of 3), <u>G.E.</u>	3
FNARXXX	Fine Arts, G.E	3	XXX	Environ. Chem. Elective	3-4
		16-17			15-17

Total credits must equal at least 128 hours.

#### **Chemistry electives – 6 or more credits from CHEM 300-400 level classes**

**Environmental electives: 6 or more credits must be taken from the following.** (Students must take at least one 300 or 400 level course from the Environmental Elective offerings):

PUBH 101	Introduction to Public Health	3	SOC 305	Environmental Sociology	3
PUBH 202	Introduction to Epidemiology	3	ES 295	Environmental Studies Seminar	3
PUBH 401	Global Health	3	ENVE 321	Environ Engineering Measurements	3
BIOL 408	Special Problems in Env. Sciences	4	ENVE 311	Fund. Environ. Engineering I	3
MATH 221	Calculus III	3	ENVE 424	Ecological Engineering	3
MATH 306	Ordinary Diff. Equations I	3			

\*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, 321, 322, 323, 324, 392, 398/399 OR 499, 405, and 6 credits of CHEM electives (305, 308, 401, 404, 407, 410, 501).**

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

Revised 05/20/2021