

BACHELOR OF SCIENCE IN CHEMISTRY (ENVIRONMENTAL CHEMISTRY)

Web Site: <https://twu.edu/chemistry-biochemistry/undergraduate-programs/bs-in-chemistry--environmental-chemistry/>

Recommended Plan of Study

First Year

Fall	TCCN	SCHs
CHEM 1001 Horizons of Chemistry and Biochemistry I: Career Possibilities		1
CHEM 1213 Principles of Chemistry I & CHEM 1211 and Principles of Chemistry Laboratory I		4
MATH 2014 Calculus I	MATH 2413	4
ENG 1013 Composition I	ENGL 1301	3
UNIV 1231 Learning Frameworks: The First Year Experience	EDUC 1100, EDUC 1200, EDUC 1300	1
Wellness CAO		2
SCHs		15

Spring

TCCN	SCHs
MATH 2024 Calculus II	MATH 2414
CHEM 1101 Horizons of Chemistry and Biochemistry II: Current Applications	
CHEM 1223 Principles of Chemistry II & CHEM 1221 and Principles of Chemistry Laboratory II	
ENG 1023 Composition II	ENGL 1302
BIOL 1113 Principles of Biology I & BIOL 1111 and Principles of Biology I Laboratory	BIOL 1406 & BIOL 1106
SCHs	
16	

Second Year

Fall	TCCN	SCHs
CHEM 2213 Organic Chemistry I & CHEM 2211 and Organic Chemistry Laboratory I	CHEM 2323 & CHEM 2123	4
PHYS 2153 General Physics I & PHYS 2151 and General Physics Laboratory I	PHYS 2325 & PHYS 2125	4
POLS 2013 U.S. National Government Language, Philosophy, and Culture Core	GOVT 2305	3
Elective		3
SCHs		16

Spring

TCCN	SCHs
CHEM 3223 Organic Chemistry II & CHEM 3221 and Organic Chemistry Laboratory II	
PHYS 2163 General Physics II & PHYS 2161 and General Physics Laboratory II	PHYS 2326 & PHYS 2126
POLS 2023 Texas Government	GOVT 2306
SCHs	
12	

CHEM 3333 Quantitative Chemical Analysis & CHEM 3331 and Quantitative Chemical Analysis Laboratory		4
--	--	---

SCHs 15

Third Year

Fall	TCCN	SCHs
CHEM 3413 Physical Chemistry I & CHEM 3411 and Physical Chemistry Laboratory I		4
CHEM 3633 Biochemistry I & CHEM 3632 and Biochemistry I Laboratory		5
Social & Behavioral Science Core		3
CHEM 3313 Physical Chemistry for the Life Sciences		3
SCHs		15

Spring

TCCN	SCHs
CHEM 3423 Physical Chemistry II & CHEM 3421 and Physical Chemistry Laboratory II	
CHEM 3643 Biochemistry II	
CHEM 3713 Environmental Chemistry I & CHEM 3711 and Environmental Chemistry Laboratory I	
Multicultural Women's Studies CAO	
SCHs	
14	

Fourth Year

Fall	TCCN	SCHs
HIST 1013 History of the United States, 1492-1865	HIST 1301	3
Creative Arts Core		3
CHEM 4513 Inorganic Chemistry & CHEM 4511 and Inorganic Chemistry Laboratory		4
BIOL 1123 Principles of Biology II & BIOL 1121 and Principles of Biology II Laboratory	BIOL 1407 & BIOL 1107	4
CHEM 4983 Undergraduate Research		3
SCHs		17

Spring

TCCN	SCHs
CHEM 4001 Research Presentations in Chemistry and Biochemistry	
HIST 1023 History of the United States, 1865 to the Present	HIST 1302
CHEM 4983 Undergraduate Research	
CHEM 4991 Senior Thesis	
Select 4 SCH from the following	
SCI 3033 Water in a Changing Environment	
SCI 3133 Climate Change: A Human Perspective	
BIOL 4223 Ecology and Ecology Laboratory & BIOL 4221	
SCHs	
12	

SCHs 12

Total SCHs: 120