

# BACHELOR OF SCIENCE IN CHEMISTRY (ENVIRONMENTAL CHEMISTRY)

Total Semester Credit Hours (sch): 121

## Major: 78 sch

CHEMISTRY.BS CIP Code: 40.0501.00

## Degree Requirements

### Texas Core Curriculum

Code	Title	SCHs
ENG 1013	Composition I	3
ENG 1023	Composition II	3
Mathematics		3
Life & Physical Sciences		6
Language, Philosophy, & Culture		3
Creative Arts		3
HIST 1013	History of the United States, 1492-1865	3
HIST 1023	History of the United States, 1865 to the Present	3
GOV 2013	U.S. National Government	3
GOV 2023	Texas Government	3
Social & Behavioral Sciences		3
CAO: Women's Studies		3
CAO: First Year Seminar, Wellness or Mathematics		3
<b>Total SCHs</b>		<b>42</b>

### Courses Required for Major

Code	Title	SCHs
MATH 2024	Calculus II	4
BIOL 1111	Principles of Biology I Laboratory	1
BIOL 1121	Principles of Biology II Laboratory	1
PHYS 2153/2151	General Physics I	4
PHYS 2163/2161	General Physics II	4
CHEM 1001	Horizons of Chemistry and Biochemistry I: Career Possibilities	1
CHEM 1101	Horizons of Chemistry and Biochemistry II: Current Applications	1
CHEM 1213/1211	Principles of Chemistry I	4
CHEM 1223/1221	Principles of Chemistry II	4
CHEM 2213/2211	Organic Chemistry I	4
CHEM 3223/3221	Organic Chemistry II	4
CHEM 3313	Physical Chemistry for the Life Sciences	3
CHEM 3333/3331	Quantitative Chemical Analysis	4
CHEM 3633/3632	Biochemistry I	5
CHEM 3713/3711	Environmental Chemistry I	4
CHEM 4001	Research Presentations in Chemistry and Biochemistry	1

CHEM 3413/3411	Physical Chemistry I	4
CHEM 3423/3421	Physical Chemistry II	4
CHEM 4513/4511	Inorganic Chemistry	4
CHEM 4983	Undergraduate Research (may be taken twice)	3
CHEM 4991	Senior Thesis	1
<b>Total SCHs</b>		<b>65</b>

### Other Requirements

Code	Title	SCHs
MATH 2014	Calculus I	4
BIOL 1113	Principles of Biology I	3
BIOL 1123	Principles of Biology II	3
Select 4 hours from the following:		4
SCI 3033	Water in a Changing Environment (GP)	
SCI 3013	Community Conversation in Sustainability (GP)	
SCI 3133	Climate Change: A Human Perspective (GP)	
BIOL 4221	Ecology Laboratory	
BIOL 4223	Ecology (GP)	
<b>Total SCHs</b>		<b>14</b>

(GP) satisfies global perspectives graduation requirement.

## Plan of Study

### First Year

Fall	TCCN	SCHs	
CHEM 1001	Horizons of Chemistry and Biochemistry I: Career Possibilities	1	
CHEM 1211	Principles of Chemistry Laboratory I	1	
CHEM 1213	Principles of Chemistry I	3	
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
<b>SCHs</b>			<b>15</b>

### Spring

	TCCN	SCHs	
MATH 2024	Calculus II	MATH MATH 2414	4
CHEM 1101	Horizons of Chemistry and Biochemistry II: Current Applications		1



SCI 3033 (GP)	Water in a Changing Environment	
SCI 3013 (GP)	Community Conversation in Sustainability	
SCI 3133 (GP)	Climate Change: A Human Perspective	
BIOL 4221	Ecology Laboratory	
BIOL 4223 (GP)	Ecology	
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	SCHs	12
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	Total SCHs:	120

(GP) satisfies global perspectives graduation requirement.