

Degree: Bachelor of Science
 Major: CHEMISTRY
 Emphasis: ENVIRONMENTAL

UNIVERSITY CORE CURRICULUM (Common across majors)

COMM 1311	Foundation of Communication
ENGL 1302	Writing and Rhetoric
See Catalog	Language, Philosophy & Culture
HIST 1301	US History I
HIST 1302	US History II
POLS 2305	US GOVT
POLS 2306	TX GOVT
See Catalog	Creative Arts
See Catalog	Social Science

SCH PREREQUISITES

3	or ENGL 1301
3	
3	varies
3	n/a *may take HIST 2301 for one history course
3	n/a
3	varies

UNIVERSITY CORE CURRICULUM Specific to this major (SEE NOTE BELOW)

MATH 2413	Calculus I
CHEM 1411	General Chemistry I
CHEM 1412	General Chemistry II
CAO Option 1	labs from CHEM 1411, 1412, MATH 2413
CAO Option 2	MATH 2414

(-3)	Math 1314+1316 or Math 2312 or beyond
(-3)	
(-3)	Chem 1411 and College algebra or ~
(-3)	varies
(-3)	Math 2413
27	

NOTE: Taking core curriculum classes other than those listed in the major specific university core classes section above will result in you taking additional courses that may not be required to complete your degree. Please consult your major academic advisor for more details.

CHEMISTRY FOUNDATIONS

28 SCH			
PHYS 1401 or 2425	Physics I	4	varies
PHYS 1402 or 2426	Physics II	4	varies
BIOL, GEOL, ESCI	-	4	varies
BIOL, GEOL, ESCI	-	4	varies
MATH 1442	Statistics for Life	4	(may take MATH 3342)
MATH 2413	Calculus I	4	Math 1314+1316 or Math 2312 or beyond
MATH 2414	Calculus II	4	Math 2413 with "C" or better
28			

CHEMISTRY ENVIRONMENTAL EMPHASIS 53 hours

CHEM 1411	Gen. Chemistry I	4	
CHEM 1412	Gen. Chemistry II	4	Chem 1411 and College algebra or ~
*CHEM 3411	Organic Chemistry I	4	CHEM 1411
*CHEM 3412	Organic Chemistry II	4	CHEM 3411
*CHEM 3417	Quantitative Analysis (SP)	4	CHEM 1412
*CHEM 3418	Instrumental Analysis (FL, SP)	4	CHEM 1412
*CHEM 4292	Senior Chemistry Seminar	2	Senior standing
*CHEM 4344	Chemical Oceanography (SP)	3	CHEM 1412
*CHEM 4423	Physical Chemistry I (FL)	4	CHEM 1412, PHYS 1402 or 2426, MATH 2414
*CHEM 4424	Physical Chemistry II (SP)	4	CHEM 4423
*CHEM 4443	Environmental Chemistry (FL)	4	CHEM 1412, CHEM 3411
*CHEM 4085	Major Field Test in Chemistry	0	Senior standing

Select 12 hours from the following courses:

*CHEM 4350	Polymer Chemistry	4	CHEM 3412
*CHEM 4407	Advanced Inorganic Chemistry	4	CHEM 3412
*CHEM 4409	Adv. Instrumental Analysis	4	CHEM 3412, CHEM 3418
*CHEM 4490	CHEM Special topics	4	varies
*CHEM 4696	Directed Independent Study	4	
*ESCI 4301	Environmental Regulations	2	POLS 2306, POLS 2306
*ESCI 4330	Oil Spill Prevention and Response	2	
*ESCI 4370	Hazardous Waste Operations	2	

ELECTIVES

General Electives	general elective	10	12 if transfer 30+ hours
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University Requirements

Minimum Total Hours for degree:	120	Minimum Major grade point average (g.p.a.):	2.25
*Upper Division minimum total hours:	45	(count 45)	
*Upper Division minimum residency hours:	36	Computer Literacy : COSC 1435	
*Upper Division minimum major residency hrs:	12		
Cumulative TAMU-CC minimum g.p.a.:	2	First Year Seminar Requirement: UNIV 1101/1102	2
Foreign Language Requirement:			

see catalog