

Degree: **Bachelor of Science**
 Major: **CHEMISTRY**
 Emphasis: **GENERAL**

UNIVERSITY CORE CURRICULUM (Common across majors)

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

SCH PREREQUISITES

3	
3	
3	varies
3	n/a *may take HIST 3331 for one history course
3	n/a
3	n/a
3	n/a
3	n/a
3	n/a
3	varies

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

MATH 2413	<u>Calculus I</u>	(-3)	Math 1314+1316 or Math 2312 or beyond
CHEM 1411	<u>General Chemistry I</u>	(-3)	
CHEM 1412	<u>General Chemistry II</u>	(-3)	Chem 1411 and College algebra or ~
CAO Option 1	<u>labs from CHEM 1411,1412, MATH 2413</u>	(-3)	varies
CAO Option 2	<u>MATH 2414</u>	(-3)	Math 2413

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

PHYS 2425	<u>Physics I</u>	4	MATH 2413
PHYS 2426	<u>Physics II</u>	4	MATH 2414, PHYS 2425
BIOL, GEOL, ESCI		4	
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MATH 2413	<u>Calculus I</u>	4	Math 1314+1316 or Math 2312 or beyond
MATH 2414	<u>Calculus II</u>	4	Math 2413 with "C" or better
*MATH 2415	<u>Calculus III</u>	4	MATH 2414 with "C" or better

CHEMISTRY GENERAL EMPHASIS

CHEM 1411	<u>Gen. Chemistry I</u>	4	
CHEM 1412	<u>Gen. Chemistry II</u>	4	Chem 1411 and College algebra or ~
*CHEM 3411	<u>Organic Chemistry I</u>	4	CHEM 1411
*CHEM 3412	<u>Organic Chemistry II</u>	4	CHEM 3411
*CHEM 3417	<u>Quantitative Analysis (SP)</u>	4	CHEM 1412
*CHEM 3418	<u>Instrumental Analysis (FL, SP)</u>	4	CHEM 1412
*CHEM 4401	<u>Biochemistry I</u>	4	CHEM 3412 and 1 year biology
*CHEM 4423	<u>Physical Chemistry I (FL)</u>	4	CHEM 1412, PHYS 1402 or 2426, MATH 2414
*CHEM 4424	<u>Physical Chemistry II</u>	4	CHEM 4423
*CHEM 4407	<u>Advanced Inorganic Chemistry</u>	4	CHEM 3412
*CHEM 4292	<u>Senior Chemistry Seminar (FL,SP)</u>	2	Senior standing
*CHEM 4085	<u>Major Field Test in Chemistry</u>	0	Senior standing

Select 12 hours from the following courses:

*CHEM 4443	<u>Environmental Chemistry</u>	10	CHEM 1412, CHEM 3411
*CHEM 4402	<u>Biochemistry II</u>		CHEM 4401
*CHEM 4409	<u>Adv. Instrumental Analysis</u>		CHEM 3412, CHEM 3418
*CHEM 4344	<u>Chemical Oceanography</u>		CHEM 1412
*CHEM 4350	<u>Polymer Chemistry</u>		CHEM 3412
*CHEM 4490	<u>CHEM Special topics</u>		varies
*CHEM 4696	<u>Directed Independent Study</u>		
*CHEM 4320	<u>Drugs, Toxins and Nat.Pro.Chem</u>		CHEM 4401

ELECTIVES

<u>General Elective</u>	If transfer 30+ hours	2	SEE ADVISOR, MAY NEED to BE Upper Level
<u>General Elective</u>	required electives to reach 120	9	SEE ADVISOR, MAY NEED to BE Upper Level

University Requirements

Minimum Total Hours for degree:	120	Minimum Major grade point average (g.p.a.):	2.25
*Upper Division minimum total hours:	45	(44 on plan)	
*Upper Division minimum residency hours:	36	Computer Literacy : see catalog	
*Upper Division minimum major residency hrs:	12		
Cumulative TAMU-CC minimum g.p.a.:	2	First Year Seminar Requirement: UCCP 1101/1102	2
Foreign Language Requirement:	see catalog		