

Degree: **Bachelor of Science**
 Major: **CHEMISTRY**
 Emphasis: **BIOCHEMISTRY** Pre-professional (Med, Dental, Pharm, etc.)

UNIVERSITY CORE CURRICULUM

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	(-3)	Math 1314+1316 or Math 2312 or beyond
CHEM 1411	General Chemistry I	(-3)	
CHEM 1412	General Chemistry II	(-3)	Chem 1411 and College algebra or ~
CAO Option 1	labs from CHEM 1411,1412, MATH 2413	(-3)	varies
CAO Option 2	MATH 2414	(-3)	Math 2413 with a "C" or better

NOTE: Taking core curriculum classes other than those listed in the major specific university core classes section 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	see catalog, prerequisite depends on
PHYS 1402 or 2426	Physics II	4	Physics chosen
BIOL 1406	Biology I	4	placement beyond MATH 1314
BIOL 1407	Biology II	4	BIOL 1406
MATH 1442	Statistics for Life	4	must be College Ready in math
MATH 2413	Calculus I	4	Math 1314+1316 or Math 2312 or beyond
MATH 2414	Calculus II	4	Math 2413 with a "C" or better
		28	

CHEMISTRY BIOCHEMISTRY EMPHASIS

53 SCH			
CHEM 1411	Gen. Chemistry I	4	
CHEM 1412	Gen. Chemistry II	4	Chem 1411 and College algebra or ~
BIOL 2416	Genetics	4	BIOL 1406 Grade "C",BIOL 1407,CHEM 1411,CHEM 1412
BIOL 2421	Microbiology	4	BIOL 1406 Grade "C",BIOL 1407,CHEM 1411,CHEM 1412
*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 4401	Biochemistry I	4	CHEM 3412 and 1 year biology
*CHEM 4402	Biochemistry II (SP)	4	CHEM 4401
*CHEM 4423	Physical Chemistry I (FL)	4	CHEM 1412, PHYS 1402 or 2426, MATH 2414
*CHEM 4292	Senior Chemistry Seminar (FL,SP)	2	Senior standing
*CHEM 4085	Major Field Test in Chemistry	0	
*ELECTIVES	Choose from: MATH 2415,*CHEM 4320, *CHEM 4350, 4407,4420, 4424,4443	7	See Catalog, depends on courses selected
		53	

ELECTIVES

11 - 13 SCH	
*Upper div. Elective	3
*Upper div. Elective	3
*** *Upper div. Elective (if don't take HIST 3331 for core)	3
*** elective	2
Recommend meeting with academic advisor regularly to ensure meeting all	4 SCH if transfer on 30+ hours university, college, and program requirements

University Requirements

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