

Degree: **Bachelor of Science**
 Major: **CHEMISTRY**
 Emphasis: **7-12 Cert**

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
_____	PSYC 2301	General Psychology

SCH PREREQUISITES

_____	3	or ENGL 1301
_____	3	
_____	3	varies - CERT requires Lit
_____	3	n/a *may take HIST 2301 for one history course
_____	3	n/a
_____	3	REQUIRED FOR CERTIFICATION
_____	3	
_____	27	

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

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.

Special CHEMISTRY FOUNDATIONS

_____	19 SCH			
_____	PHYS 2425	Physics I	4	MATH 2413
_____	PHYS 2426	Physics II	4	MATH 2414, PHYS 2425
_____	MATH 2413	Calculus I	4	Math 1314+1316 or Math 2312 or beyond
_____	MATH 2414	Calculus II	4	Math 2413 with a grade of "C" or better
_____	*MATH 3315	Differential Equations (SP)	3	MATH 2414 with a grade of "C" or better

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CHEMISTRY 7-12 EMPHASHS

_____	50 SCH			
_____	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 4401	Biochemistry I	4	CHEM 3412 and 1 year biology
_____	*CHEM 4423	Physical Chemistry I (FL)	4	CHEM 1412, PHYS 1402 or 2426, MATH 2414
_____	*CHEM 4443	Environmental Chemistry	4	CHEM 1412, CHEM 3411
_____	*PHYS 3334	Modern Physics	3	PHYS 2426, co-req MATH 3315
_____	*SMTE 4217	Secondary Appr to Life Sciences	2	
_____	*SMTE 4270	Science Education Topics I	2	
_____	*SMTE 4320	Secondary Sci Lab Techniques	3	BIOL 1407, CHEM 1412, EDUC 3311

P. CHEM II rem

Required

_____	_____	_____	46	
_____	ELECTIVES			
_____	BIOL 1406	Biology I	4	placement beyond MATH 1314
_____	BIOL 1407	Biology II	4	BIOL 1406
_____	ENGL	elective required for certification	3	9 hours ENGL required for CERTIFICATION

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PROFESSIONAL DEVELOPMENT FOR TEACHER CERTIFICATION (27)

THEA Scores Required: MATH 230, READING 250, WRITING 240

Exempt from TSI if: SAT >=1180 or ACT >= 26

_____	READ 3353	CONTENT AREA RDG	3	
_____	EDUC 3311	SCHOOL & SOCIETY	3	
_____	EDUC 4606	PLANNING, TEACHING	6	Field Based Semester
_____	EDUC 4322	INSTRUCTIONAL DSGN	3	Field Based Semester
_____	EDUC 4312	CLASSROOM MGMT	3	
_____	EDUC 4993	CLINICAL TEACHING	9	

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University Requirements

Minimum Total Hours for degree:	120	132 hours on plan, assumes Cal I ready upon entry	
*Upper Division minimum total hours: (EST 69 ON PLAN)	45	(72 on plan)	
*Upper Division minimum residency hours:	36		
*Upper Division minimum major residency hrs:	12		
Cumulative TAMU-CC minimum g.p.a. or last 60 :	2.75	First Year Seminar Requirement: UNIV 1101/1102	2
Foreign Language Requirement:	see catalog	Minimum Major grade point average (g.p.a.):	2.75

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