

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	
3	
3	varies - CERT requires Lit
3	n/a *may take HIST 3331 for one history course
3	n/a
3	n/a
3	n/a
3	n/a
3	REQUIRED FOR CERTIFICATION
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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 EMPHSHS

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

ELECTIVES		46	
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

READ 3353	CONTENT AREA RDG	3	Exempt from TSI if: SAT >=1180 or ACT >= 26
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: UCCP 1101/1102
Foreign Language Requirement:	see catalog	Minimum Major grade point average (g.p.a.):

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