

Bachelor of Science in Chemistry and Education with Endorsement in Secondary Education and Physical Sciences

MAJOR REQUIREMENTS/CHEMISTRY: 36 Credits (a)	MAJOR REQUIREMENTS/EDUCATION: 24 Credits (b)
CE111: General Chemistry I CE111L: General Chemistry I Lab	3.0 1.0
CE112: General Chemistry II CE112L: General Chemistry II Lab	3.0 1.0
CE221: Quantitative Analysis CE221L: Quantitative Analysis Lab	3.0 2.0
CE241: Organic Chemistry I CE241L: Organic Chemistry I Lab	3.0 2.0
CE242: Organic Chemistry II CE242L: Organic Chemistry II Lab	3.0 2.0
CE311: Chemical Literature CE322: Instrumental Analysis CE322L: Instrumental Analysis Lab	1.0 3.0 1.0
CE341: Physical Chemistry I CE341L: Physical Chemistry I Lab	3.0 1.0
CE410: Seminar	1.0
3 crs. of CE Electives from 400+ level CE4xx: <u>(Excluding CE499)</u>	3.0
CHEMISTRY OUTSIDE MAJOR REQUIREMENTS: 24 Credits	
MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II	4.0 4.0
PH211: General Physics and Calculus I PH211L: General Physics w/Calculus I Lab	4.0 1.0
PH212: General Physics w/Calculus II PH212L: General Physics w/Calculus II Lab	4.0 1.0
PH301: Modern Physics PH302: Applied Physics	3.0 3.0
FREE ELECTIVES: 2 Credits	Credits
	2.0
<p>(a) Students desiring certification by the ACS should enroll in the BS.CE ACS program</p> <p>(b) Minimum grade of "C" required for Education Courses</p> <p>(c) Students must complete the appropriate test requirement(s) with a passing score PRIOR to Student Teaching.</p>	

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GENERAL EDUCATION REQUIREMENTS: 36 Credits		Credits
First Year Seminar	FY-101: First Year Seminar *(Select Section "CE")	3.0
Reading and Writing	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Outside Major Requirements with MA125 or MA126	0.0
Natural Sciences	Fulfilled in Major Requirements with required CE courses	0.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from Art, Music, Theatre, or Dance	3.0
Technological Literacy	IT102: Information Technology for Scientists	3.0
Reasoned Oral Discourse	Fulfilled in the Major Requirements with ED320	0.0
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3.0
Social Science	3 Credits from courses designated with Course*Type: SS.SV	3.0
Historical Perspective/Social Sciences	3 Credits from courses designated with Course*Type: HS.SV or 3 Credits from courses designated with Course*Type: SS.SV	3.0
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity and Global Understanding or Foreign Language	3 Credits from courses designated with Course*Type: CD	6.0
	and 3 Credits from courses designated with Course*Type: GU	
	or 6 Credits from the SAME foreign language	
Experiential Education	One course designated with Course*Type: EX	0.0
Writing Intensive	Two courses from Chemistry (CE) designated with Course*Type: WT	0.0
	Two courses from Education (ED, EDL, EDS) designated with Course*Type: WT	0.0
		0.0
		0.0

Minimum Credits for a Bachelor of Science in Chemistry and Education with Endorsement in Secondary Education and Physical Sciences = 128.0

ADDITIONAL ENDORSEMENTS AVAILABLE:

- TSD - Teacher of Students with Disabilities - Secondary
- ESL - English as a Second Language - Secondary

NOTES:

* 58 credits must be completed at the 200 level or higher.

** Education majors are required to have an overall GPA of 2.75 for State Certification.

***By state regulation, all Education Majors seeking content area endorsement must complete 12+ credits at the 300 + level in the content major.