3.0

CE111: General Chemistry I Lab CE1112: General Chemistry I Lab CE112: General Chemistry II Lab CE221: Quantitative Analysis CE221: Quantitative Analysis CE221: Quantitative Analysis CE221: Organic Chemistry I Lab CE241: Organic Chemistry I Lab CE241: Organic Chemistry I Lab CE242: Organic Chemistry I Lab CE242: Organic Chemistry II Lab CE242: Organic	MAJOR REQUIREMENTS/CHEMISTRY: 35 Credits (a)		MAJOR REQUIREMENTS/EDUCATION: 36 Cre	dits (b)
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CE221L: Quantitative Analysis Lab CE241: Organic Chemistry I CE241L: Organic Chemistry I Lab CE242: Organic Chemistry II CE327: Literacy Instruction in K-5 Educational Settings II CE242: Organic Chemistry II CE327: Literacy Instruction in K-5 Educational Settings II CE2527: NCATE Assessment CE361: Methods of Teaching Science for Elementary School ED361: Methods	CE112L: General Chemistry II Lab	1.0	ED250: Foundations of Teaching and Learning	3.
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CE342L: Organic Chemistry II Lab CE311: Chemical Literature CE322: Instrumental Analysis CE322L: Instrumental Analysis CE322L: Instrumental Analysis Lab CE372: Ph Chm: Intro to Spectroscopy and Quantum Chem. CE372L: Ph Chm: Intro to Spectroscopy and Quantum Chem. CE372L: Ph Chm: Intro to Spectroscopy and Quantum Chem. Lab CE410: Seminar 3 crs. of CE Electives from 400+ level CE4xx: (Excluding CE499) IEMISTRY OUTSIDE MAJOR REQUIREMENTS: 18 Credits MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I Lab PH211: General Physics w/Calculus II A.0 PH212: General Physics w/Calculus II A.0 ED360: Methods of Teaching Elementary Mathematics ED360N: NCATE Assessment ED361: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: NcATE Assessment ED360: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: NcATE Assessment ED360: Methods of Teaching Science for Elementary School ED361: Methods of Teaching Science for Elementary School ED361: Methods of Teaching Science for Elementary School ED362: Teaching Elementary ED360: NcATE Assessment ED360: NcATE Assessment ED361: Methods of Teaching Science for Elementary Sciol ED361: Methods of Teaching Science for ED361: Methods of Teaching Science for ED362: Teaching Elementary Social Studies ED362: Teaching Elementa	CE242: Organic Chemistry II	3.0	·	3.
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and Quantum Chem. Lab CE410: Seminar 3 crs. of CE Electives from 400+ level CE4xx: (Excluding CE499) 3.0 HEMISTRY OUTSIDE MAJOR REQUIREMENTS: 18 Credits MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II PH211: General Physics and Calculus I PH211L: General Physics w/Calculus II A.0 PH212: General Physics w/Calculus II A.0 ED362: Teaching Elementary Social Studies ED362N: NCATE Assessment 9 Credits as Follows (c): ED416: Student Teaching AND ED416: Seminar in Student Teaching *OR* ED417: Supervised Student Teaching AND ED417S: Seminar - Supervised Student Teaching		3.0	· ·	3.
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PH211: General Physics and Calculus I PH211L: General Physics w/Calculus I Lab PH212: General Physics w/Calculus II ED417: Supervised Student Teaching AND ED417S: Seminar - Supervised Student Teaching	-			
PH211L: General Physics w/Calculus I Lab 1.0 EDUCATION OUTSIDE MAJOR REQUIREMENTS: 3 Cr PH212: General Physics w/Calculus II 4.0			ED417: Supervised Student Teaching AND	8.
PH212: General Physics w/Calculus II EDUCATION OUTSIDE MAJOR REQUIREMENTS: 3 Cr 4.0	PH211: General Physics and Calculus I	4.0	ED417S: Seminar - Supervised Student Teaching	1.
PH212: General Physics w/Calculus II 4.0	PH211L: General Physics w/Calculus I Lab	1.0		
· · · · · · · · · · · · · · · · · · ·			EDUCATION OUTSIDE MAJOR REQUIREMENTS:	3 Cred
PH212L: General Physics w/Calculus II Lab 1.0 PY103: Introduction to Psychology				
· · · · · · · · · · · · · · · · · · ·	PH212L: General Physics w/Calculus II Lab	1.0	PY103: Introduction to Psychology	3
FF FI FCTIVES: 3 Credits	EE ELECTIVES: 3 Credits			Credi

(a) Students desiring certification by the ACS should enroll in the BS.CE ACS program

(c) Students must complete the appropriate test requirement(s) with a passing score PRIOR to Student Teaching.

(b) Minimum grade of "C" required for Education Courses

NERAL EDUCATION REQUIREMENTS: 33 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		Fulfilled in Outside Major Requirements with PY103	0.0
Historical		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/Global Understanding		3 Credits from courses designated with Course*Type: CD	
		3 Credits from courses designated with Course*Type: GU	3.0
	or	6 Credits from the SAME foreign language	3.0
Experiential Education		One course designated with Course*Type: EX	0.0
Writing Intensive		Two courses from Chemistry (CE) designated with	0.0
		Course*Type: WT	0.0
		Two courses from Education (ED, EDL, EDS) designated with	0.0
		Course*Type: WT	0.0

Total Credits for Bachelor of Science in Chemistry and Education with Endorsement in Elementary Education = 128

ADDITIONAL ENDORSEMENTS AVAILABLE:

- TSD Teacher of Students with Disabilities Elementary
- ESL English as a Second Language Elementary
- MID-SCI Middles School Sciences
- P-3 Early Childhood Endorsement
- Teacher of Supplemental Instruction in Reading/Mathematics K-8

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.