

Bachelor of Science in Mathematics and Education with Endorsement in Elementary Education

MAJOR REQUIREMENTS/MATHEMATICS: 43 Credits		MAJOR REQUIREMENTS/EDUCATION: 36 Credits (a)	
MA120: Intro to Mathematical Reasoning 4.0 MA125: Calculus with Analytic Geometry I 4.0 MA126: Calculus with Analytic Geometry II 4.0 MA211: Differential Equations 3.0 MA221: Linear Algebra 3.0 MA225: Calculus with Analytic Geometry III 4.0 MA314: Number Theory 3.0 MA319: Probability and Statistics I 3.0 MA320: Probability and Statistics II 3.0 MA410: Modern Algebra 3.0 MA415: Real Analysis 3.0 Take 2 courses from among: MA317: Geometry or MA411: Abstract Algebra or MA413: Complex Analysis 3.0 or MA419: Introduction to Math Modeling 3.0 MA LVL1: Gateway Exam 1 0.0 MA LVL2: Gateway Exam 2 0.0 MA LVL3: Gateway Exam 3 0.0		EDL201: Educational Psychology 3.0 EDL206: Child and Adolescent Development 3.0 ED250: Foundations of Teaching and Learning 3.0 EDL326: Literacy Instructions in K-5 Educational Settings I 3.0 ED320: Teaching Students with Diverse Needs 3.0 EDL327: Literacy Instruction in K-5 Educational Settings II 3.0 ED360: Methods of Teaching Elementary Mathematics 3.0 ED361: Methods of Teaching Science for Elementary School 3.0 ED362: Teaching Elementary Social Studies 3.0 9 Credits as Follows (b): ED416: Student Teaching AND 8.0 ED416S: Seminar in Student Teaching 1.0	
OUTSIDE MAJOR (MA) REQUIREMENTS: 11 to 14 Credits		OUTSIDE MAJOR (EDE) REQUIREMENTS: 3 to 6 Credits	
CS175: Introduction to Computer Science I 3.0 or MA237: Programming & Technology in Mathematics 4.0 Complete one of the following groups: Group A - (8 credits): CE111: General Chemistry I 3.0 CE111L: General Chemistry I Lab 1.0 CE112: General Chemistry II 3.0 CE112L: General Chemistry II Lab 1.0 *OR* Group B - (10 credits): PH211: General Physics w/Calculus I 4.0 PH211L: General Physics w/Calculus I Lab 1.0 PH212: General Physics w/Calculus II 4.0 PH212L: General Physics w/Calculus II Lab 1.0 *OR* Group C - (8 credits): BY109: Intro to Biodiversity and Evolution 4.0 BY110: Intro to Cell & Molecular Biology 4.0		PY103: Introduction to Psychology 3.0 MA317: Geometry* 0.0 - 3.0 <i>*May be fulfilled in major requirements</i>	
FREE ELECTIVES: 0 to 2 Credits		Credits	
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(a) Minimum grade of "C" required for Education Courses

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

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GENERAL EDUCATION REQUIREMENTS: 33 Credits		Credits
First Year Seminar	FY-101: First Year Seminar	3.0
Reading and Writing	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Major Requirements with required MA courses	0.0
Natural Sciences	Fulfilled in Outside Major Req. with BY, CE, PH courses	0.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from subject MU, AR, TH, DA	3.0
Technological Literacy	3 Credits from courses designated with Course*Type: TL <i>*May be fulfilled in Major Requirements with MA237</i>	3.0
Reasoned Oral Discourse	Fulfilled in Major Requirements with ED320, and/or MA314	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 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	3 Credits from courses designated with Course*Type: CD	6.0
Understanding or Foreign Language	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 Mathematics (MA) designated with Course*Type: WT	0.0
	Two courses from Education (ED, EDL, EDS) designated with Course*Type: WT	0.0
		0.0

Minimum Credits for Bachelor of Science in Mathematics and Education with Endorsement in Elementary Education = 128.0	
ADDITIONAL ENDORSEMENTS AVAILABLE:	
• TSD - Teacher of Students with Disabilities - Elementary	• ESL - English as a Second Language - Elementary
• MID-MA - Middle School Mathematics	• 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.