

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

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

<p>Minimum Credits for Bachelor of Science in Mathematics and Education with Endorsement in Elementary Education = 128.0</p> <p>ADDITIONAL ENDORSEMENTS AVAILABLE:</p> <ul style="list-style-type: none"> • TSD - Teacher of Students with Disabilities - Elementary • ESL - English as a Second Language - Elementary • MID-MA - Middle School Mathematics • P-3 Early Childhood Endorsement

NOTES:

- * 58 credits must be completed at the 200 level or higher.
- ** Education majors are required to have an overall GPA of 3.00 for State Certification.
- ***By state regulation, all Education Majors seeking content area endorsement must complete 30 content credits (12+ credits at the 300+ level).