

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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MA-120: Intro to Mathematical Reasoning	4.0	EDL-201: Educational Psychology	3.0
MA-125: Calculus with Analytic Geometry I	4.0		
MA-126: Calculus with Analytic Geometry II	4.0	EDL-206: Child and Adolescent Development	3.0
MA-220: Probability and Statistics I	3.0		
MA-221: Linear Algebra	3.0	ED-250: Foundations of Teaching and Learning	3.0
MA-225: Calculus with Analytic Geometry III	4.0		
MA-314: Number Theory	3.0	EDL-326: Literacy Instructions in K-6 Educational Settings I	3.0
MA-317: Geometry	3.0		
MA-325: History of Mathematics	3.0		
MA-410: Modern Algebra	3.0	ED-320: Teaching Students with Diverse Needs	3.0
MA-415: Real Analysis	3.0		
Take 6 Credits from Mathematics (MA) from levels 300+, 400+	6.0		
MA-xxx: _____		EDL-327: Literacy Instruction in K-6 Educational Settings II	3.0
MA-xxx: _____			
MA-LVL1: Gateway Exam 1	0.0		
MA-LVL2: Gateway Exam 2	0.0		

INTERDISCIPLINARY (MA) REQUIREMENTS: 11 to 14 Credits	
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CS-175: Introduction to Computer Science I	3.0	ED-360: Methods of Teaching Elementary	3.0
OR MA-237: Prog. & Tech. in Mathematics	4.0		
Complete one of the following groups		ED-361: Methods of Teaching Science for Elementary School	3.0
Group A - (8 credits):			
CE-111: General Chemistry I	3.0	ED-362: Teaching Elementary Social Studies	3.0
CE-111L: General Chemistry I Lab	1.0		
CE-112: General Chemistry II	3.0		
CE-112L: General Chemistry II Lab	1.0		
OR Group B - (10 credits):		9 Credits as Follows (b):	
PH-211: General Physics w/Calculus I	4.0	ED-416: Student Teaching AND	8.0
PH-211L: General Physics w/Calculus I Lab	1.0	ED-416S: Seminar in Student Teaching	1.0
PH-212: General Physics w/Calculus II	4.0		
PH-212L: General Physics w/Calculus II Lab	1.0		
OR Group C - (8 credits):			
BY-109: Intro to Biodiversity and Evolution	4.0		
BY-110: Intro to Cell & Molecular Biology	4.0		

FREE ELECTIVES: 0 to 5 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	EN-101: College Composition I	3.0
	EN-102: College Composition II	3.0
Mathematics	Fulfilled in Major Requirements with required MA courses	0.0
Natural Sciences	Fulfilled in Interdisciplinary with BY, CE, or 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 MA-237</i>	0.0 - 3.0
Reasoned Oral Discourse	Fulfilled in Major Requirements with ED-320, and/or MA-314	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

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

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).