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

Ва	achelor of Science in Mathematics ar	nd Educat	tion with Endorsement in Elementary Education		
MAJOR REQUIREMENTS/MATHEMATICS: 43 Credits			MAJOR REQUIREMENTS/EDUCATION: 30 Credits (a)		
	MA120: Intro to Mathematical Reasoning	4.0	ED250: Foundations of Teaching & Learning	3.0	
	MA125: Calculus with Analytic Geometry I	4.0	EDL326: Literacy Instructions in K-5 Educational Settings I	3.0	
	MA126: Calculus with Analytic Geometry II	4.0			
	MA211: Differential Equations	3.0	ED320: Teaching Students with Diverse Needs	3.0	
	MA221: Linear Algebra	3.0	EDL327: Literacy Instruction in K-5 Educational Settings II	3.0	
	MA225: Calculus with Analytic Geometry III	4.0	EDL327N: NCATE Assessment	0.0	
	MA314: Number Theory	3.0			
	,		ED360: Methods of Teaching Elementary Mathematics	3.0	
	MA319: Probability and Statistics I	3.0	ED360N: NCATE Assessment	0.0	
	MA320: Probability and Statistics II	3.0			
			ED361: Methods of Teaching Science for Elem School	3.0	
	MA410: Modern Algebra	3.0	ED361N: NCATE Assessment	0.0	
	MA415: Real Analysis	3.0			
			ED362: Teaching Elementary Social Studies	3.0	
Take 2 courses fi	rom among:		ED362N: NCATE Assessment	0.0	
	MA317: Geometry				
or	MA411: Abstract Algebra		ED-PRAXIS: Education Praxis II	0.0	
or	MA413: Complex Analysis	3.0	• PRAXIS - 10014	0.0	
or	MA419: Introduction to Math Modeling	3.0			
			9 Credits as Follows:		
			ED416: Student Teaching AND	8.0	
	MA LVL1: Gateway Exam 1	0.0	ED416S: Seminar in Student Teaching	1.0	
	MA LVL2: Gateway Exam 2	0.0	<u>OR</u>		
	MA LVL3: Gateway Exam 3	0.0	ED417: Supervised Student Teaching AND	8.0	
			ED417S: Seminar - Supervised Student Teaching	1.0	
THEMATICS OU	TSIDE MAJOR REQUIREMENTS: 11 to 14 C		EDUCATION OUTSIDE MAJOR REQUIREMENTS: 9 to 12 Cre	dits	
	CS175: Introduction to Computer Science I	3.0			
	MA237: Programming & Technology	4.0	DV4000 letter dusting to Daughalass.	0.0	
complete one of	the following groups:		PY103: Introduction to Psychology	3.0	
	Group A - (8 credits): CE111: General Chemistry I	3.0			
	CE111L: General Chemistry I Lab	1.0	PY201: Educational Psychology	3.0	
	CE112: General Chemistry II	3.0	1 1201. Educational 1 Sychology	3.0	
	CE112L: General Chemistry II Lab	1.0			
OF	•	1.0	PY206: Child and Adolescent Development	3.0	
<u> </u>	<u>·</u> Group B - (10 credits):		1 1200. Offind and 7 addicessorit Bovelopinoni	0.0	
	PH211: General Physics w/Calculus I	4.0			
	PH211L: General Physics w/Calculus I Lab	1.0	MA317: Geometry *(May be fulfilled in major requirements)	0.0 - 3.0	
	PH212: General Physics w/Calculus II	4.0		***	
	PH212L: General Physics w/Calculus II Lab	1.0			
<u>OF</u>	•				
<u></u>	Group C - (8 credits):				
	BY109: Intro to Biodiversity and Evolution	4.0			
	BY110: Intro to Cell & Molecular Biology	4.0			
EE ELECTIVES:	0.0 -5.0 Credits	. "		Credits	
				0.0 -5.0	

Bachelor of Science in Mathematics and Education with Endorsement in Elementary Education					
NERAL EDUCATION REQUIREMENTS: 30 to 33 Credits	CATION REQUIREMENTS: 30 to 33 Credits				
First Year Seminar	FY-101: First Year Seminar	3.0			
Reading and Writing	EN101: College Composition I EN102: College Composition II	3.0 3.0			
Mathematics	Fulfilled in Major Requirements with required MA courses	0.0			
Natural Sciences	Fulfilled in Outside Major Requirements 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 *(May be fulfilled in Major Requirements with MA237)	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	Fulfilled in Outside Major Requirements with PY103	0.0			
Historical Perspective/Social Sciences or	3 Credits from courses designated with Course*Type: HS.SV 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 or	3 Credits from courses designated with Course*Type: CD 3 Credits from courses designated with Course*Type: GU 6 Credits from the SAME foreign language	3.0 3.0			
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			

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

ADDITIONAL ENDORSEMENTS AVAILABLE:

(Please review Endorsement Charts for Requirements)

- TSD Teacher of Students with Disabilities Elementary (ELE.TSD.10)
 - ESL English as a Second Language Elementary (ELE.ESL.10)
 - MID-MA Middle School Mathematics (MID.MA.10)
 - P-3 Early Childhood Endorsement (ELE.P3.10)
- Teacher of Supplemental Instruction in Reading/Mathematics K-8 (ELE.READ.MATH.10)

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.

ORR 07/09