Bachelor of Science in Mathematics and Education with Endorsement in Secondary Education				
MAJOR REQUIREMENTS/MATHEMATICS: 43 Credits		MAJOR REQUIREMENTS/EDUCATION: 24 Credits (a)		
MA120: Intro to Mathematical Reasoning	4.0	ED250: Foundations of Teaching and Learning	3.0	
MA125: Calculus with Analytic Geometry I	4.0			
MA126: Calculus with Analytic Geometry II	4.0	EDL201: Educational Psychology	3.0	
MA211: Differential Equations	3.0			
MA221: Linear Algebra	3.0	EDL206: Child and Adolescent Development	3.0	
MA225: Calculus with Analytic Geometry III	4.0			
MA314: Number Theory	3.0	ED319: Literacy Across the Secondary	3.0	
MA319: Probability and Statistics I	3.0	Curriculum	0.0	
MA320: Probability and Statistics II	3.0	ED319N: NCATE Assessment	0.0	
MA410: Modern Algebra	3.0			
MA415: Real Analysis	3.0	ED320: Teaching Students with Diverse Needs	3.0	
Take 2 courses from among: MA317: Geometry		9 Credits as Follows (b):		
or MA411: Abstract Algebra		ED416: Student Teaching AND	8.0	
or MA413: Complex Analysis	3.0	ED416S: Seminar in Student Teaching	1.0	
or MA419: Introduction to Math Modeling	3.0			
ar an area and area area area area area area area are		<u>*OR*</u>		
MA LVL1: Gateway Exam 1	0.0	l —		
MA LVL2: Gateway Exam 2	0.0	ED417: Supervised Student Teaching AND	8.0	
MA LVL3: Gateway Exam 3	0.0	ED417S: Seminar - Supervised Student Teaching	1.0	
OUTSIDE MAJOR (MA) REQUIREMENTS: 11 to 14 Credits		EDUCATION METHODS REQUIREMENTS: 6 Credits (a)		
CS175: Introduction to Computer Science I	3.0			
or MA237: Programming & Technology in	4.0	ED365: Teaching Secondary Math Part I		
Mathematics		*OR* ED375: Secondary Teaching Methods Part I	3.0	
Complete one of the following groups:				
Group A - (8 credits):				
CE111: General Chemistry I	3.0	ED366: Teaching Secondary Math Part II		
CE111L: General Chemistry I Lab	1.0	*OR* ED376: Secondary Teaching Methods Part II	3.0	
CE112: General Chemistry II	3.0			
CE112L: General Chemistry II Lab	1.0	OUTSIDE MAJOR (ED) REQUIREMENTS: 3 to 6	Credits	
OR Group B - (10 credits):	1.0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
PH211: General Physics w/Calculus I	4.0	PY103: Introduction to Psychology	3.0	
PH211L: General Physics w/Calculus I Lab	1.0	1 1 100. Introduction to 1 Sychology	3.0	
PH212: General Physics w/Calculus II	4.0	MA317: Geometry*	0.0 - 3.0	
PH212L: General Physics w/Calculus II Lab	1.0	*May be fulfilled in major requirements	3.0 3.0	
OR Group C - (8 credits):	'.5	way be familied in major requirements		
BY109: Intro to Biodiversity and Evolution	4.0			
BY110: Intro to Cell & Molecular Biology	4.0			
2. 1. c. maio to don a molocular biology	7.5			
FREE ELECTIVES: 2 to 11 Credits		_	Credits	
			2.0-11.0	

(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.

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

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ENERAL EDUCATION REQUIREMENT	TS: 30 to 33 Credits	Cred	
First Year Seminar	FY-101: First Year Seminar	3	
Reading and Writing	EN101: College Composition I	3	
	EN102: College Composition II	3	
Mathematics	Fulfilled in Major Requirements with required MA courses	0	
Natural Sciences	Fulfilled in Outside Major Req. with BY, CE, PH courses	c	
Literature	3 Credits from courses designated with Course*Type: LIT	3	
Aesthetics and Creativity	3 Credits from subject MU, AR, TH, DA	3	
Technological Literacy	3 Credits from courses designated with Course*Type: TL* *May be fulfilled in Outside Major Requirements with MA237	0.0 - 3	
Reasoned Oral Discourse	Fulfilled in Major Requirements with ED320 or MA314	C	
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3	
Social Science	Fulfilled in Outside Major Requirements with PY103	(
Historical	3 Credits from courses designated with Course*Type: HS.SV or 3 Credits from courses designated with Course*Type: SS.SV	3	
nterdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3	
Cultural Diversity and Global Understanding or Foreign Language	3 Credits from courses designated with Course*Type: CD and 3 Credits from courses designated with Course*Type: GU or 6 Credits from the SAME foreign language	6	
Experiential Education	One course designated with Course*Type: EX	(
Writing Intensive	Two courses from Mathematics (MA) designated with	C	
	Course*Type: WT	C	
	Two courses from Education (ED, EDL, EDS) designated with Course*Type: WT	C	

Minimum Credits for Bachelor of Science in Mathematics and Education with Endorsement in Secondary Education = 128.0

ADDITIONAL ENDORSEMENTS AVAILABLE:

• TSD - Teacher of Students with Disabilities - Secondary

• ESL - English as a Second Language - Secondary

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.