B.S.Ed. MATHEMATICS – 127 CREDITS

Name:	Date Major Declared:		Planned Grad Date:		
Basic Skills Testing Requirement for Candidacy					
Teacher Candidacy Requirement: Basic Skills, 48+ credits of study & 2.8+ GPA					
Praxis 5161 Mathematics Content Knowledge Test (Must take prior to student teaching, and earn passing score to graduate):					
	CREDITS	**COURSE**	**SEMESTER**	**GRADE**	**REP/W****
GENERAL EDUCATION REQUIREMENTS (61 less 36 Attributed to Major Requirements = 25 credits)					
FIRST YEAR EXPERIENCE	4				
WRT 120	3				
WRT 200, or 204, or 205, or 206, or 208, or 220	3				
MATH	-	MAT 161			
DIVERSE COMMUNITIES "J"	-	ENG 382			
INTERDISCIPLINARY "I"	-	EDF 300			
ETHICS "E"	-	ERM 355			
SCIENCE (6 CREDITS FROM TWO AREAS: CHEM, BIO, ESS, PHYSICS)	-	PHY 170			
	-	CSC 141			
BEHAVIOR & SOCIAL SCI. (6 CREDITS FROM TWO AREAS: ANT SOC PSY ECO GEO PSC)	3				
	3				
HUMANITIES (A LIT COURSE is required for candidacy)	3	LIT *(REQ for Candidacy)*			
	3				
ARTS (ART CINEMATOGRAPHY MUSIC PHOTOGRAPHY THEATRE)	3				
SPEAKING "S" COURSE	-	SED 200			
	-	SED 411			
	-	SED 412			
WRITING "W" COURSE	-	SED 350			
	-	SED 354			
	-	MAT 401			
CAPSTONE	-	SED 411/412			
EDUCATION CORE REQUIREMENTS (29 credits)					
EDF 300 Democracy and Education "I"	3				
EDP 280 — Developmental and Psychological Perspectives in Education	3				
EDA 103 — Foundations of Special Education	3				
EDA 303 — Special Ed: Processes/Procedures for General Educators	2				
EDR 347 — Literacy Development & Sec Students w/Disabilities	3				
LAN/ENG 382 — Teaching English Language Learners PK-12	3				
ERM 355 Ethical and Effective Assessment for Learning 7 – 12 "E"	3				
SED 100 An Exploration of Secondary Education	3				
SED 200 Learning Environments & Field Experience in Secondary Schools. "S"	3				
SED 300 Principles of Teaching and Technology in Secondary Education "W"	3				
MATHEMATICS EDUCATION REQUIREMENTS (12 credits)					
SED 350 Middle School Mathematics Methods "W"	3				
SED 354 Secondary Mathematics Methods "W"	3				
SED 356 Advanced Perspectives of High School Mathematics I	3				

SED 357 Advanced Perspectives of High School Mathematics II	3				
MATHEMATICS COURSES - CORE (27 CREDITS)					
MAT 161 Calculus	4				
MAT 162 Calculus II	4				
MAT 200 Nature of mathematics	3				
MAT 261 Calculus III	4				
MAT 311 Linear Algebra	3				
MAT 411 Algebra I	3				
MAT 421 Mathematical Statistics I	3				
MAT 441 Real Analysis I	3				
MATHEMATICS COURSES – EDUCATION CORE & ELECTIVES (15 CREDITS)					
MAT 331 Geometry	3				
MAT 343 Differential Equations	3				
MAT 401 History of Mathematics "W"	3				
Applied Mathematics Elective	3				
Mathematics Elective	3				
COGNATE REQUIREMENTS (7 CREDITS)					
PHY 170 Physics I	4				
CSC 141 Intro Computer Science	3				
CAPSTONE EXPERIENCE (12 CREDITS)					
*SED 411 — Student Teaching Stage IV Fields: Clearances Needed	6				
*SED 412 — Student Teaching Stage IV Fields: Clearances Needed	6				

B.S.Ed. Mathematics
Sample Schedule

	Fall	Spring
Yr 1	FY Experience WRT 120 Gen Ed Humanities LIT MAT 161 CSC 141 17 credits	SED 100 EDP 280 WRT 200, 204, 205, 206, 208 or 220 MAT 162 MAT 200 16 credits
Yr 2	EDF 300 "I" EDA 103 MAT 261 MAT 311 PHY 170 17 credits	EDA 303 SED 200 SED 356 MAT 441 MAT 343 Gen Ed Behavioral/ Social Science 17 credits
Yr 3	EDP 355 "E" SED 300 SED 350 "W" (Required) SED 357 MAT 411 15 credits	SED 354 "W" (Required) LAN/ ENG 382 "J" EDR 347 MAT 331 MAT 421 Gen Ed Behavioral/ Social Science 18 credits
Yr 4	SED 411 & 412 "S" 12 credits	MAT 401 "W" MAT Applied Mathematics Elective MAT Elective Gen Ed Arts Gen Ed Humanities 15 credits

Note: MAT 331, MAT 401, MAT 441, MAT 343 – Spring Only

Advising Comments

Gen Ed	Core Ed w/St Teach	Math Ed	Cognate	Math Core	Math Ed Core/Electives	Total
25	41	12	7	27	15	127