Mathematics Bachelor of Science in Education: Secondary Education

Program Code: UCOESEUMA Version Number: 2118-Fall 2011 Program Effective: August 29, 2011

Credit Total: 120

	GENERAL EDUCATION				
I. U	I. University Core: 12 S.H.				
a.	Oral Communication: COM 010 or above		3		
b.	Written Communication: ENG 023, 024 or 025 ♦		3		
C.	Mathematics: MAT 017 or above ◆		3		
d.	Wellness: Any 3 credit HEA course		3		

II. Un	iversity Distribution: 15 S.H.	GR.	S.H.
a.	Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		#
b.	Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
C.	Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language		3
	ENG 010 or higher (English Literature) (suggested) ♦		
d.	Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e.	Free Elective: Any course carrying university credit		3

IV. College Distribution: 21 S.H.	GR.	S.H.		
a. Math: MAT 017 or above ♦		#		
b. Special Education: SPU 201 Cognitive		3		
Development				
c. Technology: ITC 321 Instructional		3		
Technology in Education				
d. 12 credits required by major but fulfilling				
General Education requirements				
COURSE: MAT 220 (suggested)				
COURSE: MAT 240 (suggested)				
COURSE: MAT 301 (suggested)				
COURSE: MAT 302 (suggested)				

III. Competencies Across the Curriculum				
A. Writing Intensive (WI) (9 credits/3 three credit courses)				
COURSE: SEU 312				
COURSE: SEU 342	9			
COURSE: SEU 321-325, 410				
в. Quantitative Literacy (QL) (3 credits) OR				
Computer Intensive (CP) (3 credits)				
COURSE: ITC 321				
c. Visual Literacy (VL) (3 credits) OR				
Communication Intensive (CM) (3 credits)				
COURSE: SEU 342				
D. Cultural Diversity (CD) (3 credits)				
COURSE: SEU 312				
E. Critical Thinking (CT) (3 credits)				
COURSE: EDU 100				

VI. Clinical Component: 39 S.H.	GR.	S.H.
EDU 100 Perspectives on American Education		3
SPU 201 Cognitive Development of Diverse Learners in a Standards Aligned System #		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
¹ SEU 312 Principles of Learning		3
¹ SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312)		3
¹ SEU 342 Principles of Teaching		3
¹ SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342)		3
EDU 326 Introduction to Middle Level Education		3
¹ SEU 323 Methods of Teaching Secondary School Subject: Mathematics		3
SEU 390/391 Clinical Experience and Practicum I and II		12
	Total	

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B- is required.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- □ Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- **C** or better in ENG literature course
- **C** or better in two mathematics courses
- □ Completion of Education Exploration hours
 - These courses require a grade of "C" or better

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V. 3	SPECIALIZATION: 51 S.H.		
1.	Required Courses: 36 S.H.	GR.	S.H.
	CSC 135 Computer Science I		3
	MAT 181 Calculus I #		4
	MAT 182 Calculus II #		4
	MAT 220 History of Mathematics #		3
	MAT 224 Foundations of Higher Mathematics		3
	MAT 240 Synthetic Geometry #		3
	MAT 260 Linear Algebra		3
	MAT 283 Calculus III		4
	MAT 301 Probability and Statistics I #		3
	MAT 302 Probability and Statistics II #		3
	MAT 311 Abstract Algebra I		3
		Total	
2.	Electives: 3 S.H. (selected from below)		
	MAT 312 Abstract Algebra II		3
	MAT 351 Advanced Calculus I		3
		Total	
4.	Mathematics: 12 S. H.		
	ect either four MAT courses (303 or higher) OR one CSC course (136 or higher) and th T courses (303 or higher):	ree	
			3
			3
			3
			3

Program:	BSED SEU/MATHEMATICS					
		FIR	ST	YEAR		
	Fall Semester				Spring Semester	
Course	Title	С.Н.		Course	Title	С.Н.
EDU 100CT	Perspectives on American Education	3		SPU 201	Cognitive Development of Diverse Learners in a Standards Aligned System Mathematics General Education	3
COM 010	Fundamentals of Oral Communication	3		MAT 017 or above	Requirement	3 or 4
					ENG Literature Course (Humanities	
ENG 23, 24 or 25	College Composition	3			General Education Requirement)	3
MAT 017 or above	Mathematics General Education Requirement	3 or 4			MAT Required Course	3 or 4
	MAT Required Course	3 or 4			MAT Required Course	3 or 4
		0014				0014
Total		15 or 17		Total		15 or 18
		SEC	ON	ID YEAR		
0	Fall Semester	0.11		0	Spring Semester	<u> </u>
Course	Title	С.Н.		Course	Title Effective Instructional Strategies for	C.H.
ITC 321CPVL	Instructional Technology in Education	3		SPU 314	Students with Disabilities in Inclusive Settings	3
	General Education Requirement (Wellness, Social Sciences, Natural Sciences, or Arts)	3 or 4			General Education Requirement (Wellness, Social Sciences, Natural Sciences, or Arts)	3 or 4
	General Education Requirement (Wellness, Social Sciences, Natural Sciences, or Arts)	3 or 4			General Education Requirement (Wellness, Social Sciences, Natural Sciences, or Arts)	3 or 4
	MAT Required Course	3 or 4			MAT Required Course	3 or 4
	MAT Required Course	3 or 4			MAT Required Course	3 or 4
Total		15 or 19		Total		15 or 19
				L	l	
		THI	RL) YEAR	Charlen Comocéar	
C aumaa	Fall Semester	C.H.		Course	Spring Semester	С.Н.
Course	Title				Title	С.п.
SEU 312WICD	Principles of Learning Principles of Learning Clinical	3		SEU 342WIVL	Principles of Teaching Principles of Teaching Clinical	3
SEU 313	Component	3		SEU 343	Component	3
	General Education Requirement (Free Elective)	3 or 4			MAT Required Course	3 or 4
	MAT Required Course	3 or 4			MAT Required Course	3 or 4
	MAT Required Course	3 or 4			MAT Required Course	3 or 4
	MAT Required Course	3014			MAT Required Course	3014
Total		15 or 18		Total		15 or 18
		FOU	RT	H YEAR		
	Fall Semester				Spring Semester	
Course	Title Methods of Teaching Secondary	С.Н.		Course	Title	С.Н.
SEU 323WI	Methods of Teaching Secondary School Subject: Mathematics	3		SEU 390	Clinical Experience & Practicum I	6
	MAT Required Course	3 or 4		SEU 391	Clinical Experience & Practicum II	6
	MAT Required Course	3 or 4				1
	MAT Required Course	3 or 4				
	Introduction to Middle Level					
EDU 326	Education	3		 		
Total		15 or 18		Total		12