KUTZTOWN UNIVERSITY

College of Education
Bachelor of Science in Education: Secondary Education – Mathematics

> **Program Code: UCOESEUMA**
> **Version Number: 2168-Fall 2016**
> **Program Effective: August 29, 2016**
> **Credit Total: 121**

GENERAL EDUCATION

I. University Core: 12 S.H.	GR.	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 (suggested)**		3
d. Wellness: **Any 3 credit HEA course**		3

II. University 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**		3
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** **ENG 010 or higher (English Literature) (suggested)**		3
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 (suggested)		3
b. **Special Education:** SPU 201 Cognitive Development		3
c. **Technology**: ITC 321 Instructional Technology in Education		3
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 311 (suggested)**		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: **SEU 312**	
COURSE: **SEU 342**	#
COURSE: **SEU 321-325, 410**	
B. 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**	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

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

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V. SPECIALIZATION: 48 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
MAT 351 Advanced Calculus I		3
	Total	
2. Mathematics: 9 S. H.		
Select either three MAT courses (300 or higher) OR one CSC course (136 or higher) and two MAT courses (300 or higher):		
		3
		3
		3
	Total	

 # Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning[1]		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) [1]		3
SEU 342 Principles of Teaching[1]		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) [1]		3
EDU 326 Introduction to Middle Level Education		3
SEU 323 Methods of Teaching Secondary School Subject: Mathematics[1]		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
	Total	

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

Program:	BSED SEU/MATHEMATICS					

FIRST YEAR

Fall Semester				Spring Semester		
Course	Title	C.H.		Course	Title	C.H.
EDU 100CT	Perspectives on American Education	3		SPU 201	Cognitive Development of Diverse Learners in a Standards Aligned System	3
COM 010	Fundamentals of Oral Communication	3		MAT 017 or above	Mathematics General Education Requirement	3 or 4
ENG 23, 24 or 25	College Composition	3			ENG Literature Course (Humanities 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
Total		15 or 17		Total		15 or 18

SECOND YEAR

Fall Semester				Spring Semester		
Course	Title	C.H.		Course	Title	C.H.
ITC 321CPVL	Instructional Technology in Education	3		SPU 314	Effective Instructional Strategies for 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

THIRD YEAR

Fall Semester				Spring Semester		
Course	Title	C.H.		Course	Title	C.H.
SEU 312WICD	Principles of Learning	3		SEU 342WIVL	Principles of Teaching	3
SEU 313	Principles of Learning Clinical Component	3		SEU 343	Principles of Teaching Clinical 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
Total		15 or 18		Total		15 or 18

FOURTH YEAR

Fall Semester				Spring Semester		
Course	Title	C.H.		Course	Title	C.H.
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				
	MAT Required Course	3 or 4				

EDU 326	Introduction to Middle Level Education	3			
Total		15 or 18	*Total*		12