Math Teaching 5-year Urban ELE/ECE programs guide (PreCalculus)

(To be used in conjunction with advising and sequence sheets offered in your Education major)

All Math Teaching majors will be required to take a minimum of 13 MAT/STA course units and an orientation to the major. The 13 course units will consist of 12 required courses and one option:

MAT 099/Orientation to Mathematics and Statistics — 0 course unit

MAT 099/Orientation to Mathematics and Statistics	U	course	unit	
MAT 105/Math Structures and Algorithms for Educator	S	I 10	course u	nit
MAT 127/Calculus A (Prerequisite: PreCalculus)	1	course	unit	
MAT 128/Calculus B	1	course	unit	
MAT 200/Proof Writing through Discrete Mathematics	1	course	unit	
MAT 205/Linear Algebra	1	course	unit	
MAT 229/Multivariable Calculus	1	course	unit	
MAT 255/Perspectives on the Development of Mathem	ıat	ics1 cou	ırse unit	t
MAT 301/Number Theory	1	course	unit	
MAT 305/Abstract Algebra	1	course	unit	
MAT 310/Real Analysis	1	course	unit	
MAT 351/Geometry	1	course	unit	
STA 216/Statistical Inference and Probability	1	course	unit	
one MAT/STA option which can be any MAT/STA				
course at the 300/400 level (see department website)	1	course	unit	

SUGGESTED MATH COURSE SCHEDULE

FRESHMAN YEAR		<u>UNITS</u>
(FALL)		
MAT 099	Orientation for Math/Stat Majors	0
MAT 120	PreCalculus	1
MAT 105	Mathematical Structures and Algorithms for Educators I	1
(SPRING)		
MAT 127	Calculus A (LL) ¹	1
STA 216	Statistical Inference & Probability (Spring only)	1
SOPHOMORE YEAR		
(FALL)		
MAT 128	Calculus B	1
(SPRING)		
MAT 229	Multivariable Calculus	1
MAT 200	Proof Writing through Discrete Mathematics	1
JUNIOR YEAR		

	(FALL)		
	MAT 205	Linear Algebra	1
	MAT 301	Number Theory	1
	(SPRING)		
	MAT 255	Perspectives on the Development of Math (Spring only)	1
	MAT 305	Abstract Algebra	1
CENIO	D VEAD		
SENIO	R YEAR		
	(FALL)		
	MAT 351	Geometry	1
	MAT 310	Real Analysis	1
	(SPRING)		
	MAT/STA	Mathematics/Statistics Option*	1
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^{*}See department website for MAT/STA options

Note: If your program doesn't allow in any one year for the number of courses we recommend to be taken in that year, courses can be postponed to the following year. Please keep in mind the following requirements:

- Discrete mathematics is a prerequisite for most upper level courses so it should be taken in the freshman year or as soon as possible thereafter.
- Calculus A is a prerequisite for Calculus B and Calculus B is a prerequisite for Multivariable Calculus.
- Multivariable Calculus is a prerequisite for Geometry.
- Linear Algebra is a prerequisite for Abstract Algebra. We also recommend that you take Number Theory before taking Abstract Algebra.

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(EALL)

¹Placement based on SAT/ACT scores or placement test. See department website.