

THE COLLEGE OF NEW JERSEY
 MATHEMATICS AND STATISTICS DEPARTMENT
 MATHEMATICS SECONDARY EDUCATION MAJOR (starting in PreCalc)

<u>FRESHMAN YEAR</u>	<u>UNITS</u>
(FALL)	
MAT 099 Orientation for Math/Stat Majors	0
MAT 120 PreCalculus	1
CSC 220 Computer Science I	1
FYW 102 or FYS 1XX Academic Writing ⁴ or First Seminar (LL) ²	1
----- ---- Second Language ³	$\frac{1}{4}$
	4
(SPRING)	
SED 099 Secondary Education freshmen seminar	0
MAT 127 Calculus A (LL) ¹	1
STA 216 Statistical Inference & Probability (Spring only)	1
FYS 1XX First Seminar (LL) ² or other Liberal Learning course	1
----- ---- Second Language ³	$\frac{1}{4}$
	4
 <u>SOPHOMORE YEAR</u>	
(FALL)	
MAT 200 Proof Writing through Discrete Mathematics	1
MAT 128 Calculus B	1
SED 224/EFN 299 Adolescent Learning & Development or Schools & Communities	1
----- ---- Liberal Learning (Literary, Visual, Performing Arts)	1
BIO 201, CHE 201, or PHY 201 Science	$\frac{1}{5}$
	5
(SPRING)	
MAT 229 Multivariable Calculus	1
MAT 205 Linear Algebra	1
MAT 255 Perspectives on the Development of Math (Spring only)	1
EFN 299/SED 224 Schools & Communities or Adolescent Learning & Development	$\frac{1}{4}$
	4
 <u>JUNIOR YEAR</u>	
(FALL)	
MAT 301 Number Theory	1
MAT 351 Geometry	1
SPE 103 Social and Legal Foundations of Special Education	1
MTT 380 Methods of Teaching Math I (Fall only)	1
MAT/STA Mathematics/Statistics Option ⁵	$\frac{1}{5}$
	5

(SPRING)			
MAT 305	Abstract Algebra		1
----	Social Change in Historical Perspectives (EFN 398 recommended)		1
MAT 310	Real Analysis		1
MAT 497	Topics in Secondary Mathematics from an Advanced Viewpoint (Spring only)		$\frac{1}{4}$

SENIOR YEAR

(FALL)			
MAT/STA	Mathematics/Statistics Option ⁵		1

CLINICAL PRACTICE I: THE FOLLOWING 3 COURSES MUST BE TAKEN AS A BLOCK IN THE SEMESTER DIRECTLY PRECEDING CLINICAL PRACTICE II

MTT 390	Methods of Teaching Math II (Fall only)		1
RAL 328	Reading in Secondary Education		.5
SED 399	Pedagogy in Secondary Schools		$\frac{1.5}{4}$

(SPRING)			
MTT 490	Clinical Practice II: Math		2
SED 498	Collaborative Capstone for Professional Inquiry		$\frac{1}{3}$

TOTAL REQUIRED FOR GRADUATION: 32 UNITS

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

²FSP 1xx will also count as a Civic responsibility, depending on its course number.

³If studying a foreign language not previously taken in high school, you must complete the language requirement at the 102 level or higher.

⁴May be exempt.

⁵MAT/STA options must be chosen from list of courses on the department website.

NOTE: The official major requirements, including retention and graduation grade requirements, can be found in the Undergraduate Bulletin and on the department website.

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2/13/21