

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

FRESHMAN YEAR UNITS

(FALL)

MAT 099	Orientation for Math/Stat Majors	0
MAT 127	Calculus A (College Core requirement) ¹	1
MAT 270/MAT 203	Intro. to Mathematical Computing	1
FYS 1XX	First Year Seminar (CC) ²	1
-----	Second Language ³	<u>1</u>
		4

(SPRING)

SED 099	Secondary Education freshmen seminar	0
MAT 128	Calculus B	1
MAT 200	Proof Writing through Discrete Mathematics	1
-----	Second Language ³	1
-----	College Core (Literary, Visual, or Performing Arts)	1
		4

SOPHOMORE YEAR

(FALL)

MAT 229	Multivariable Calculus	1
MAT 205	Linear Algebra	1
STA 216	Statistical Inference & Probability (Fall only)	1
SED 224	Adolescent Learning & Development	1
		4

(SPRING)

MAT 301	Number Theory (Spring only)	1
MAT 255	Perspectives on the Development of Math (Spring only)	1
(It is recommended that the following two courses be taken together if possible)		
SPE 322	Inclusive Practices	1
EFN 299	Schools & Communities	<u>1</u>
		4

JUNIOR YEAR

(Either semester)

MAT 310, MAT 316, or MAT 326	Real Analysis (Spring only), Probability (Fall only), or Differential Equations	1
BIO 201, CHE 201, or PHY 201	Science	1

(FALL)

MAT 305	Abstract Algebra (Fall only)	1
MTT 380	Methods of Teaching Math I (Fall only)	1

MAT 351	Geometry (Fall only)	$\frac{1}{3}$
(SPRING)		
----	College Core (Historical Perspectives - EFN 398 recommended)	1
MAT 497	Topics in Secondary Mathematics from an Advanced Viewpoint (Spring only)	1
MAT/STA	Mathematics/Statistics Option ⁴	$\frac{1}{3}$

SENIOR YEAR

(FALL)		
	CLINICAL PRACTICE I: THE FOLLOWING 2 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	0.5
SED 399	Pedagogy in Secondary Schools	$\frac{1.5}{3}$
(SPRING)		
MTT 490	Clinical Practice II: Math	2
SED 498	Collaborative Capstone for Professional Inquiry	$\frac{1}{3}$

TOTAL REQUIRED FOR GRADUATION: 30 UNITS

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

²FYS 1xx will also count as a Social Justice requirement, 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.

⁴MAT/STA option 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.

Revised 7/11/19

2/13/21

7/13/23

6/3/24

9/25/24

5/13/25

