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 (Liberal Learning requirement)[1]	1
CSC 220	Computer Science I	1
FYW 102 or FYS 1XX	Academic Writing[4] or First Seminar (LL)[2]	1
------ ----	Second Language[3]	1
		4

(SPRING)
SED 099	Secondary Education freshmen seminar	0
MAT 128	Calculus B	1
FYS 1XX	First Seminar (LL)[2] or other Liberal Learning course	1
MAT 200	Proof Writing through Discrete Mathematics	1
------ ----	Second Language[3]	1
		4

SOPHOMORE YEAR

(FALL)
MAT 229	Multivariable Calculus	1
MAT 205	Linear Algebra	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	1
		5

(SPRING)
STA 216	Statistical Inference & Probability (Spring only)	1
MAT 301	Number Theory	1
MAT 255	Perspectives on the Development of Math (Spring only)	1
EFN 299/SED 224	Schools & Communities or Adolescent Learning & Development	1
		4

JUNIOR YEAR

(FALL)
MAT 305	Abstract Algebra	1
SPE 103	Social and Legal Foundations of Special Education	1
MTT 380	Methods of Teaching Math I (Fall only)	1
MAT 351	Geometry	1
		4

(SPRING)

---- ---	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)	1
MAT/STA	Mathematics/Statistics Option[5]	<u>1</u>
		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	<u>1.5</u>
		4

(SPRING)

MTT 490	Clinical Practice II: Math	2
SED 498	Collaborative Capstone for Professional Inquiry	<u>1</u>
		3

TOTAL REQUIRED FOR GRADUATION: 32 UNITS

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

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

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

[4]May be exempt.

[5]MAT/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