FALL 2025

THE COLLEGE OF NEW JERSEY

MATHEMATICS AND STATISTICS DEPARTMENT

MATHEMATICS SECONDARY EDUCATION MAJOR (starting in PreCalc)

FRESHMAN YEAR UNITS

(FALL)

 MAT 099 Orientation for Math/Stat Majors 0

 MAT 120 PreCalculus 1

CSC 120 Foundations of Computational Thinking I 1

FYS 1XX First Year Seminar (CC)2 1

 ------ ---- Second Language3 1

 4

 (SPRING)

SED 099 Secondary Education freshmen seminar 0

 MAT 127 Calculus A (CC)1 1

MAT 200 Proof Writing through Discrete Mathematics 1

------ ---- College Core (Literary, Visual, or Performing Arts) 1

------ ---- Second Language3 1

 4

SOPHOMORE YEAR

(FALL)

MAT 128 Calculus B 1

STA 216 Statistical Inference & Probability (Fall only) 1

SED 224 Adolescent Learning & Development 1

MAT 205 Linear Algebra 1

 4

 (SPRING)

 MAT 229 Multivariable Calculus 1

MAT 301 Number Theory (spring only) 1

 (It is recommended that the following two courses be taken together if possible.)

 EFN 299 Schools & Communities 1

SPE 322 Inclusive Practices 1

 4

JUNIOR YEAR

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 351 Geometry (Fall only) 1

MAT 305 Abstract Algebra (Fall only) 1

MTT 380 Methods of Teaching Math I (Fall only) 1

 4

(SPRING)

 MAT 255 Perspectives on the Development of Math (Spring only) 1

---- --- Historical Perspectives (EFN 398 recommended) 1

MAT 497 Topics in Secondary Mathematics from an Advanced Viewpoint

(Spring only) 1

 3

SENIOR YEAR

(FALL)

MAT/STA Mathematics/Statistics Option5  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 0.5

SED 399 Pedagogy in Secondary Schools 1.5

4

 (SPRING)

 MTT 490 Clinical Practice II: Math 2

 SED 498 Collaborative Capstone for Professional Inquiry 1

 3

 TOTAL REQUIRED FOR GRADUATION: 31 UNITS

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

2FSP 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