FALL 2021

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 Writing4 or First Seminar (LL)2 1

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

 4

 (SPRING)

SED 099 Secondary Education freshmen seminar 0

 MAT 128 Calculus B 1

 FYS 1XXFirst Seminar (LL)2 or other Liberal Learning course 1 MAT 200 Proof Writing through Discrete Mathematics 1

 ------ ---- Second Language3 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/STA Mathematics/Statistics Option5  1

 4

(SPRING)

 ---- --- Social Change in Historical Perspectives (EFN 398 recommended) 1

MAT 310 Real Analysis 1

MAT 351 Geometry 1

MAT/STA Mathematics/Statistics Option5  1

 4

SENIOR YEAR

(FALL)

 MAT 497 Topics in Secondary Mathematics from an Advanced Viewpoint

(Fall only) 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 1.5

4

 (SPRING)

 MTT 490 Clinical Practice II: Math 2

 SED 498 Collaborative Capstone for Professional Inquiry 1

 3

 TOTAL REQUIRED FOR GRADUATION: 32 UNITS

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

2FYS 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.

Revised 7/11/19

 2/13/21