The College of New Jersey

Mathematics and Statistics Department

2017-18 Academic Year

**Mathematics Major: Mathematics Specialization**

**Freshman Year** Units

*Fall:* MAT 099 Orientation for Math/Stat Majors 0

 MAT 127 Calculus A (LL) 1

 CSC 220 Computer Science I (or CSC 250) 1

 or MAT 200: Discrete Mathematics

 FSP First Seminar (LL)1 1

 ------ ---- Second Language2 1

 4

*Spring:* MAT 128 Calculus B (LL) 1

 WRI 102 Academic Writing3 1

 ------ ---- Second Language2 1

 MAT 200 Discrete Mathematics

 or CSC 220/250 Computer Science Course 1

 4

**Sophomore Year**

 *Fall:* MAT 229 Multivariable Calculus 1

 MAT 205 Linear Algebra 1

 ------ ---- Science (LL) 4  1 ------ ---- Second Language2 1

 4

 *Spring:* MAT 305 Abstract Algebra 1

 ------ ---- Mathematics Option5 1

 ------ ---- Liberal Learning (LL) 2

 4

**Junior Year**

*Fall:* ------ ---- Mathematics Option5 1

 MAT 310 Real Analysis 1

 ------ ---- Liberal Learning (LL) 2

 4

 *Spring:* ------ ---- Mathematics Options5 1

 ------ ---- Mathematics Options5 1

 ------ ---- Liberal Learning (LL) 1

 ------ ---- Electives 1

 4

**Senior Year**

 *Fall:* ------ ---- Mathematics Options5 1

 ------ ---- Mathematics Options5 1

 ------ ---- Electives 2 4

 *Spring:* MAT 498 Capstone 1

 ------ ---- Electives 3

 4

 Total Required for Graduation: 32 Units

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

1 FSP 1xx will also count as a Liberal Learning requirement. The xx in 1xx is used to designate the Liberal Learning area satisfied by the course.

2 If continuing in the same language as studied in high school, you must complete the language requirement at the 103 level or higher. Also, if you took three or more years of a language in high school and continue with this language and you are placed at the 101 level, then the 101 level course will NOT count towards the 32 units required for graduation.

3 You may be able to be exempted from WRI 102. See rhetoric.intrasun.tcnj.edu for details.

4 See the department website for the list of possible courses.

5 Any MAT course at the 300/400 level (with advisement) or STA 410, with at least two 400-level MAT course units. One suitable science course (as indicated on PAWS) may count towards the 6 required course units of MAT 300/400 courses.

Revised: July 14, 2017