The College of New Jersey

Mathematics and Statistics Department

2020-21 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

FSP 16x First Seminar (LL)1 1

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

4

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

MAT 200 Discrete Mathematics 1

WRI 102 Academic Writing3 1

------ ---- Second Language2 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 310 Real Analysis 1

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

MAT 275 Sophomore Seminar .5

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

4.5

**Junior Year**

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

MAT 305 Abstract Algebra 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 2.5

3.5

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 16x will also count as a Civic responsibility, depending on its course number.

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. The MAT 4xx courses must have have a number between 400 and 480. One suitable science course (as indicated on PAWS) may count towards the 6 required course units of MAT 300/400 courses.

Revised: 6/2019