The College of New Jersey

Mathematics and Statistics Department

2021-2022 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

FYW 102 First Year Writing1 1

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

4

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

MAT 200 Discrete Mathematics 1

FYS 1xx First Year Seminar3 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 If you are exempted from FYW 102, you must take another writing intensive course in its place. However, some major courses or Liberal Learning courses you take may fulfill the writing requirement.

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

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 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: 3/8/2022