The College of New Jersey
Mathematics and Statistics Department
2025-2026 Academic Year

Mathematical Sciences BA Major

Freshman Year			Units
Fall:	MAT 099	Orientation for Math/Stat Majors	0
	MAT 127	Calculus A (LL)	1
	CSC 120	Foundations of Computational Thinking	1
	FYS 16x	First Year Seminar	1
	------ ----	Second Language[2]	1
			4
Spring:	MAT 128	Calculus B (LL)	1
	MAT 200	Discrete Mathematics	1
	------ ----	College Core	1
	------ ----	Second Language[2]	1
			4
Sophomore Year			
Fall:	MAT 205	Linear Algebra	1
	------ ----	College Core/Electives	1
	------ ----	Science (LL) [3]	1
	------ ----	Second Language[2]	1
			4
Spring:	------ ----	BA Core Option[4]	1
	------ ----	Math/Stat Option[5]	1
	MAT 275	Sophomore Seminar	.5
	------ ----	College Core/Electives	2
			4.5
Junior Year			
Fall:	------ ----	Math/Stat Option[5]	1
	------ ----	College Core/Electives	3
			4
Spring:	------ ----	Math/Stat Option[5]	1
	------ ----	College Core/Electives	2
			3

SENIOR YEAR

Fall:	------ ----	Math/Stat Option[5]	1
	------ ----	College Core/Electives	2
			3
Spring:	MAT 498	Capstone[6]	1
	------ ----	College Core/Electives	2.5
			3.5
		TOTAL REQUIRED FOR GRADUATION:	30 UNITS

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

[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] See the department website for the list of possible courses.

[4] One of MAT 305[7] or MAT 310 or MAT 316.

[5] Any MAT or STA course at the 300/400 level (with advisement), including the courses not used to satisfy the BA Core Option course. The MAT 3xx or STA 3xx courses must have a number between 300 and 380. The MAT 4xx or STA 4xx courses must have a number between 400 and 480.

[6] In their senior year, majors must complete the capstone experience. The capstone experience is concerned with oral and written communication of in-depth mathematics and serves as a summative experience for the Mathematics major.

[7] It is not a prerequisite for MAT 305: Abstract Algebra, but many students find it helpful to take MAT 301: Number Theory before taking Abstract Algebra.

Revised: May 14, 2025