The College of New Jersey
Department of Mathematics and Statistics
Fall, 2025

MATHEMATICS MAJOR: DATA SCIENCE AND STATISTICS SPECIALIZATION

FRESHMAN YEAR			UNITS
Fall:	MAT 099	Orientation for Math/Stat Majors	0
	MAT 127	Calculus A	1
	CSC 120 or MAT 203	Computer Programming	1
	FYS 1xx	First Year Seminar	1
	----- ---	Second Language	1
			4
Spring:	STA 215	Statistical Inference and Probability	1
	MAT 128	Calculus B	1
	------ ---	College Core	1
	------ ---	Second Language	1
			4
SOPHOMORE YEAR			
Fall	MAT 229	Multivariable Calculus	1
	MAT 200	Discrete Mathematics	1
	------ ---	Second Language	1
	------ ---	College Core	1
			4
Spring:	MAT 205	Linear Algebra	1
	STA 305	Regression Analysis	1
	MAT 275	Sophomore Seminar	0.5
	------ ----	College Core	1
			3.5
JUNIOR YEAR			
Fall:	MAT 316	Probability	1
	STA 3--	Data Science or Statistics Option[1]	1
	------ ---	College Core	1
	------ ---	College Core	1
			4
Spring:	STA 3--	Data Science or Statistics Option[1]	1
	STA 410	Mathematical Statistics	1
	------ ---	College Core	1
	------ ----	Science[2]	1
			4

SENIOR YEAR

Fall:	STA 3--	Data Science or Statistics Option[1]	1
	MAT/STA 3--	Mathematics/Statistics Option[1]	1
	------ ---	College Core/Elective	1
	------ ---	Elective[3]	0.5
			3.5
Spring:	STA 498	Statistics Capstone	1
	MAT/STA 3--	Mathematics/Statistics Option[1]	1
	------ ---	College Core/Elective	1
			3

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.

[1] See the Checklist for the list of approved Statistics/Data Science courses across campus, of which one can be counted as an option.

[2] Must be a natural science lab course that counts for a science major from the department approved list.

[3] 0.5 units for this course is the minimum to meet the graduation requirement. Course can be 1 unit as well.