Second Major: Statistics   **Applicable to cohorts: AY 2017/2018 and after**

Levels	Second Major Requirements	Cum MCs

Level 1000 (14–16 MCs)	Pass
	– ST1131 Introduction to Statistics
	    or ST1232 Statistics for Life Sciences
	– MA1101R Linear Algebra I
	    or MA1508E Linear Algebra for Engineering
	    or MA1513 Linear Algebra with Differential Equations (2 MCs) ^
	– MA1102R Calculus
	    or MA1505 Mathematics I
	    or MA1507 Advanced Calculus
	    or MA1511 Engineering Calculus (2 MCs) **and**
	          MA1512 Differential Equations for Engineering (2 MCs)
	    or MA1521 Calculus for Computing
	– CS1010/—E/—J/—S/—X Programming Methodology
	    or IT1007 Introduction to Programming with Python and C
		14–16

Level 2000 (16–17 MCs)	Pass
	– ST2131/MA2216 Probability
	– ST2132 Mathematical Statistics
	– ST2137 Computer Aided Data Analysis
	– MA2311 Techniques in Advanced Calculus
	    or MA2104 Multivariable Calculus
	    or MA2108 Mathematical Analysis I
	    or MA2108S Mathematical Analysis I (S)
		30–33

Levels 3000 and 4000 (16–20 MCs)	Pass – ST3131 Regression Analysis – Three other modules from ST32xx (except ST328x) or ST4xxx modules – One additional module from ST32xx (except ST328x) or ST4xxx modules ^	48–51

^ Applicable only to students who use MA1513 Linear Algebra with Differential Equations (2 MCs)
to fulfill the second major requirements.

This second major is <u>not</u> offered with a primary major in Statistics or Data Science and Analytics, and a minor in Statistics.

Students reading any one of the following **primary majors** with a second major in Statistics should take note of additional requirements.

Applied Mathematics or **Mathematics** — read <u>one</u> additional MA or ST module at level 2000 or above.

Quantitative Finance — read <u>two</u> additional MA or ST modules at level 2000 or above.

The additional modules must belong to the elective lists of the primary major or second major and must not overlap with any other modules used to satisfy the respective primary major or second major requirements.

Version: August 2017   Click on the module codes for module information