Requirements for Second Major in Data Analytics

Applicable to cohorts AY2021/2022 and after

Levels	Major Requirements	Cumulative Major Units
Level 1000	Pass	4
(4 Units)	- DSA1101 Introduction to Data Science	4
Level 2000 (22-24 Units)	Pass One of the following courses: + MA1508E Linear Algebra for Engineering~ + MA1513 Linear Algebra with Differential Equations (2 Units)^~ + MA1522 Linear Algebra for Computing + MA2001 Linear Algebra I One of the following courses: + MA1312 Calculus with Applications + MA1505 Mathematics I~ + MA1511 Engineering Calculus (2 Units)~ and MA1512 Differential Equations for Engineering (2 Units)~ + MA1521 Calculus for Computing + MA2002 Calculus - CS2040/CS2040C/CS2040S/CS2040DE Data Structures and Algorithms - ST2131/MA2116/MA2216 Probability - ST2132 Mathematical Statistics One of the following courses: + DSA2101 Essential Data Analytics Tools: Data Visualisation + DSA2102 Essential Data Analytics Tools: Numerical Computation	26-28
Levels 3000 and 4000 (12-16 Units)	 One of the following courses: + DSA3102 Essential Data Analytics Tools: Convex Optimisation* + DBA3701 Introduction to Optimisation* 	40-42

[^] Applicable only to students who use MA1513 Linear Algebra with Different Equations (2 Units) to fulfil the second major requirements.

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

^{*} Students may need to read additional courses outside the second major requirements to satisfy the prerequisites of this course.

[~] MA1505, MA1508E, MA1511, MA1512 and MA1513 are offered only to FoE students.