

Requirements for Minor in Data Analytics

Applicable to cohorts AY2019/2020 and after

A. For any student who is reading a primary major in FoS (only MA, QF, ST majors), CDE (all Engineering majors) or SoC (all majors except BZA major), or is reading a second major in MA, QF, ST, or has passed an MA-coded course (except MA1301/MA1301X) or/and ST2131/ST2334/ST3236/ST4248, pass 20 Units consisting of:

Levels	Minor Requirements	Cumulative Major Units
Level 1000 (4 Units)	Pass - GEA1000/GEA1000N Quantitative Reasoning with Data or GER1000 Quantitative Reasoning^ or BT1101 Introduction to Business Analytics or DSA1101 Introduction to Data Science* or DSE1101 Introductory Data Science for Economics^ or IE1111R Industrial & Systems Engrg Principles & Practice I or ST1131 Introduction to Statistics and Statistical Computing	4
Level 2000 (8 Units)	Pass - ST2334 Probability and Statistics or MA1505 Mathematics I^^ or MA2001/MA1101R Linear Algebra I^ or MA1508E Linear Algebra for Engineering^^ or MA1511 Engineering Calculus^^ and MA1513 Linear Algebra with Differential Equations^^ or MA1522 Linear Algebra for Computing - DSA2101 Essential Data Analytics Tools: Data Visualisation	12
Level 3000 (8 Units)	Pass - DSA3361 Inferential Data Analytics - DSA3362 Predictive Data Analytics or DSA3102 Essential Data Analytics Tools: Convex Optimisation or DBA3701 Introduction to Optimisation	20

B. For all other students not listed above, pass 20 Units consisting of:

Levels	Minor Requirements	Cumulative Major Units
Level 1000 (4 Units)	Pass - GEA1000/GEA1000N Quantitative Reasoning with Data or GER1000 Quantitative Reasoning^ or BT1101 Introduction to Business Analytics or DSA1101 Introduction to Data Science* or DSE1101 Introductory Data Science for Economics^ or IE1111R Industrial & Systems Engrg Principles & Practice I or ST1131 Introduction to Statistics and Statistical Computing	4
Level 2000 (8 Units)	Pass - MA2401 Introductory Mathematics with R** - DSA2101 Essential Data Analytics Tools: Data Visualisation	12
Level 3000 (8 Units)	Pass - DSA3361 Inferential Data Analytics - DSA3362 Predictive Data Analytics or DSA3102 Essential Data Analytics Tools: Convex Optimisation or DBA3701 Introduction to Optimisation	20

DA minor students are advised to read DSA3361 before DSA2101.

**Students reading the Minor in Data Analytics may replace MA2401 by three courses, with one course in each of the areas of calculus, linear algebra and probability, as follows:

Calculus

MA1102R/MA2002 Calculus[^]
MA1312 Calculus with Applications
MA1505 Mathematics I^{^^}
MA1507 Advanced Calculus
MA1511 Engineering Calculus^{^^}
MA1521 Calculus for Computing

Linear Algebra

MA1101R/MA2001 Linear Algebra I[^]
MA1311 Matrix Algebra
MA1508E Linear Algebra for Engineering^{^^}
MA1513 Linear Algebra with Differential Equations^{^^}
MA1522 Linear Algebra for Computing

Probability

MA2216/MA2116/ST2131 Probability
ST2334 Probability and Statistics

*Statistics major and Industrial and Systems Engineering major students should fulfil their level 1000 Minor requirements by reading DSA1101 so as to avoid triple counting their major gateway courses.

[^] GER1000, MA1101R and MA1102R have been discontinued after AY2020/2021 and DSE1101 is offered only to students in the Data Science and Economics Cross-Disciplinary Programme (XDP).

^{^^} MA1505, MA1508E, MA1511 and MA1513 are offered only to CDE students.

The Minor in Data Analytics is not offered to students reading the following majors or second majors: Business Analytics major, Business Analytics second major, Data Science and Analytics major, Data Analytics second major, and Data Science and Economics major.

29-Jan-24

Recommended Study Plan – Minor in Data Analytics

Students who belong to Group B are advised to read the minor courses in the following sequence:

