

Sample Study Plan for Major in Quantitative Finance with Second Major in Mathematics and Minor in Data Analytics

(For students matriculated in AY2021/2022 or after)

Year 1		Year 2		Year 3		Year 4	
Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2	Sem 1	Sem 2
HSA1000 Asian Interconnections	HSH1000 The Human Condition HSI1000 How Science Works, Why Science Works HSS1000 Understanding Social Complexity	Scientific Inquiry II	Artificial Intelligence	Communities and Engagement	Interdisciplinary I	Interdisciplinary II	QF4204 Project in Quantitative Finance and Fintech
		Digital Literacy (CS1010S)	MA2213 Numerical Analysis I*	MA32xx	MA32xx	QF4102 Financial Modelling and Computation	UE1
DSA1101 Introduction to Data Science^	DTK1234 Design Thinking	Writing (SP1541)	MA2101 Linear Algebra II	MA32xx	QF3103 Advanced Mathematics in Quantitative Finance	One of the following courses: QF4205, DSE4211, DSE4212	UE2
MA1100/MA1100T Basic Discrete Mathematics	MA2001 Linear Algebra I#	MA2104 Multivariable Calculus*	MA2108 Mathematical Analysis I	ST3131 Regression Analysis	QF2103 Computing for Quantitative Finance	QF4103 Mathematical Models of Financial Derivatives	UE3
QF1100 Introduction to Quantitative Finance	MA2002 Calculus*	MA2116/ST2131 Probability*	QF2104 Fundamentals of Quantitative Finance	DSA3361 Inferential Data Analytics	QF3101 Investment Instruments and Risk Management	DSA2101 Essential Data Analytics Tools: Data Visualisation	DSA3362 Predictive Data Analytics

* Double-counted between Major and Second Major | # Double counted between Major and Minor | ^ Satisfies the Data Literacy requirement

- Note:
- To find out how HSA1000, HSH1000, HSI1000, HSS1000 are pre-allocated, click [here](#).
 - Students have to complete all CHS Common Curriculum courses in their first two years except for the following 3 courses:
 - Communities and Engagement course – can be taken from Years 2 to 4
 - Two Interdisciplinary courses – can be taken in Years 3 and 4

Published 30 Apr 2023

Updated 21 Jul 2025