Department of Mathematics

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

(For students matriculated in AY2021/2022 or after)

College of Humanities and Sciences

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	QF3103 Advanced Mathematics in Quantitative Finance
		Digital Literacy (CS1010S)	* MA2101/MA2101S Linear Algebra II	MA22xx	MA32xx	MA32xx	MA4198 Mathematics Capstone Project
^ Data Literacy DTK1234 Design Thinking		Writing (SP1541)	MA2108/MA2108S Mathematical Analysis I	MA22xx	MA32xx	MA32xx	UE1
MA1100/MA1100T Basic Discrete Mathematics	# MA2001 Linear Algebra I	* MA2104 Multivariable Calculus	QF2104 Fundamentals of Quantitative Finance	ST3131 Regression Analysis	QF2103 Computing for Quantitative Finance	MA32xx	UE2
QF1100 Introduction to Quantitative Finance	* MA2002 Calculus	* MA2116/ST2131 Probability	DSA3361 Inferential Data Analytics	DSA3362 Predictive Data Analytics	QF3101 Investment Instruments and Risk Management	DSA2101 Essential Data Analytics Tools: Data Visualisation	UE3

* Double-counted between Major and Second Major | # Double-counted between Major and Minor | ^ Count towards Minor requirement

Note: 1. To find out how HSA1000, HSH1000, HSI1000, HSS1000 are pre-allocated, click here.

2. 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