## **Department of Mathematics**

## Sample Study Plan for Major in Mathematics with Second Major in Data Analytics and Minor in Quantitative Finance (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		Scientific Inquiry II	Artificial Intelligence	Communities and	Interdisciplinary I	Interdisciplinary	UE1
				Engagement		II	
HSH1000 The Human Condition							
LICIACOO Harri Caianaa Wanka Mili		Digital Literacy	MA2101/MA2101S	MA22xx	MA32xx	MA32xx	QF3103
HSI1000 How Science Works, Why		(CS1010S)	Linear Algebra II	IVIIAEZAA	IVII ISZAX	1417.0270	Advanced
Science Works		(3313133)	zineai / iigeora ii				Mathematics in
USC1000 Undowstonding Conin							Quantitative
HSS1000 Understanding Social Complexity							Finance
^ DSA1101	DTK1234	Writing (CD1E41)	MA2108/MA2108S	MA22xx	MA32xx	MA32xx	#MA32xx
Introduction to	Design Thinking	Writing (SP1541)	Mathematical	IVIAZZXX	IVIASZXX	IVIASZXX	IVIASZXX
Data Science	Design miliking		Analysis I				
	** MA2001	* NAN 211 C /CT2121	ST2132	CC2040	DSA3102 Essential	N4A22va	NAA 41 00
MA1100/MA1100T		* MA2116/ST2131	0.2202	CS2040	207.0202.2000	MA32xx	MA4198
Basic Discrete	Linear Algebra I	Probability	Mathematical	Data Structures	Data Analytics		Mathematics
Mathematics			Statistics	and Algorithms	Tools: Convex		Capstone Project
					Optimisation		
* MA2002	MA2104	QF1100	DSA2101	QF2104	QF3101	ST3131	DSA4212
Calculus	Multivariable	Introduction to	Essential Data	Fundamentals of	Investment	Regression	Optimisation for
	Calculus	Quantitative	Analytics Tools: Data	Quantitative	Instruments and	Analysis	Large-Scale Data-
		Finance	Visualisation	Finance	Risk Management		Driven Inference

<sup>\*</sup> Double-counted between Major and Second Major | \*\* Triple-counted between Major, Second Major and Minor | ^ Satisfies the Data Literacy requirement

Note: 1. To find out how HSA1000, HSH1000, HSI1000, HSS1000 are pre-allocated, click <a href="here">here</a>.

- 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

<sup>#</sup> Top-up necessitated by the triple counting of MA2001