

**Sample Study Plan for Major in Quantitative Finance with Second Major 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	UE1	Interdisciplinary I	CS3244 Machine Learning	Interdisciplinary II	
		Digital Literacy (CS1010S)	DSA2101 Essential Data Analytics Tools: Data Visualisation	UE2	DSA3102 Essential Data Analytics Tools: Convex Optimisation	QF4102 Financial Modelling and Computation	DSA4212 Optimisation for Large-Scale Data-Driven Inference	
DSA1101 Introduction to Data Science <sup>^</sup>		DTK1234 Design Thinking	Writing (SP1541)	ST2132 Mathematical Statistics	UE3	QF3103 Advanced Mathematics in Quantitative Finance	One of the following modules: QF4205, DSE4211, DSE4212	QF4104 Project in Quantitative Finance and Fintech
MA2002 Calculus*		MA2001 Linear Algebra I*	Communities and Engagement	MA2213 Numerical Analysis I	UE4	QF2103 Computing for Quantitative Finance	QF4103 Mathematical Models of Financial Derivatives	UE6
QF1100 Introduction to Quantitative Finance	MA2104 Multivariable Calculus	MA2116/ST2131 Probability*	QF2104 Fundamentals of Quantitative Finance	CS2040 Data Structures and Algorithms	QF3101 Investment Instrument and Risk Management	ST3131 Regression Analysis	UE7	

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

- Note:**
1. Recommended semester for SEP is year 3 semester 1
  2. To find out how HSA1000, HSH1000, HSI1000, HSS1000 are pre-allocated, click [here](#).
  3. 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