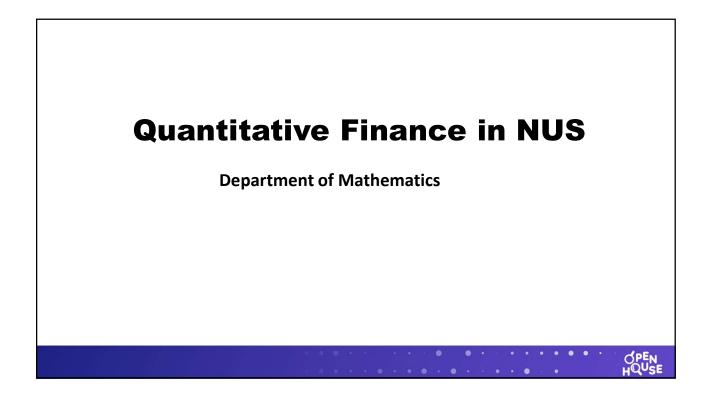
College of Humanities and Sciences Quantitative Finance														(H	З (©	R	E U 27 04 20	R	Y
Quantitative Finance in								•	•	•	•	•					•		
								į.				Ĩ							
NUS								Ĩ											
									•	Ű	•				Ċ				
						•	•						•				•	•	
														•	•	•		•	-
													٥	۰			•		C
										۰									•



Why Quantitative Finance?

- Financial institutions are increasingly using sophisticated mathematical models in order to develop and price innovative financial products, and to quantify and manage risks in their portfolios of financial assets.
- This results in a strong demand from the finance industry for graduates with a <u>high level of quantitative and analytical</u> <u>skills</u>.

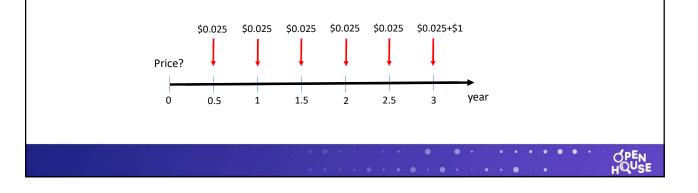
What is QF Major?

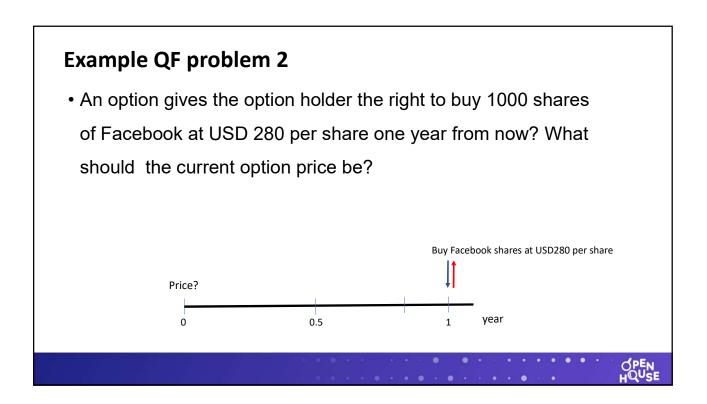
- The QF major is designed to meet the demand of the finance industry and for students who aspire to work in the finance industry as a Quant or Risk analysts.
- A multidisciplinary major that combines Mathematics, Finance, Statistics and Computing with a practical orientation.
- Students admitted to CHS can register to major in QF in year 1.

OPEN HQUS

Example QF problem 1

 A bond issued by a government pays coupons at 5% every 6 months for the next 3 years. What should be its current price for every dollar of the principal?





<text>

Career opportunities Potential Employers • Banks • Investment Companies • Securities Firms • Insurance Companies • Multinational Corporations/Companies • Monetary Authority of Singapore



<section-header><section-header><section-header><list-item><list-item><list-item><list-item><table-container>

/lodule Level	Major Requirements	Level MCs	Cumulative MCs
000	QF1100 Introduction to Quantitative Finance	4	4
000	 MA2001 Linear Algebra I MA2002 Calculus MA2104 Multivariable Calculus MA2213 Numerical Analysis I or DSA2102 Essential Data Analytics Tools: Numerical Computation MA2116/ST2131 Probability QF2103 Computing for Quantitative Finance QF2104 Fundamentals of Quantitative Finance 	28	32
000	 QF3101 Investment Instruments and Risk Management QF3103 Advanced Mathematics in Quantitative Finance ST3131 Regression Analysis 	12	44
000	 QF4102 Financial Modelling and Computation QF4103 Mathematical Models of Financial Derivatives QF4104 Project in Quantitative Finance and Fintech Pass one module from the following: QF4211/DSE4211 Digital Currencies QF4212/DSE4212 Data Science in FinTech QF4205 Time Series Analysis in Quantitative Finance 	16	60

Ways to pursue a QF programme (major/2nd-major/minor)

- In addition to the primary major in QF, the department also offer a second major and a minor in QF. These can be taken by students pursuing a primary major in Mathematics, Statistics, Engineering or Comp.Sci.
- QF primary major can also be taken with a second major such as Statistics or Economics.
- QF primary major can be taken in a context of a double-degree programme. E.g. QF+Comp.Sci.

OPEN HQUSE

College of Humanities and Sciences												(H	5	P	E	N S	Ξ						
MATHEMATICS & QUANTITATIVE FINANCE										FE	EB	VA	77H ARY 023										
Join us in person for the Coll	ege	of	Hu	ma	an	iti	es	a	n	Sci	er	۱C	es	•	•					•			
Programme Talks:															•						•		
															•					•		•	
Saturday 4 March 2023																•				•			
NUS Town Plaza Seminar Ro	oms	1 t	o 4	•													•	•	•		•	•	
- 3.00 PM: Mathematics															•	•	•			•	•	•	
- 4.00 PM: Quantitative Fina	nce																						

