## Quantitative Finance Applicable to students admitted in 2021-22

	ts are required to complete a minimum of 72 units of courses as follows:	Units
1.	Faculty Package:	9
	ACCT1111, DOTE[DSME]1030, 1040	
2.	Faculty Co-curricular Courses:	3
	IBBA3040, MGNT2511, 2512[a]	
3.	Required Courses:	27
(a)	FINA2010, 3080	
(b)	MATH1010 or 1018, MATH1030 or 1038, MATH2010# or 2018#	
(c)	ACCT3142# or CSCI2100# or 2520# or DOTE[DSME]2051# or SEEM3550#	
(d)	CSCI1510 or 1520 or 1530 or 1540 or 1550 or 1580	
(e)	{DOTE[DSME]2011# and (DOTE[DSME]2021# or FINA2020)} or {STAT2001# and 2006#}	
4.	Elective Courses:	33
(a)	At least 9 units of Quantitative Methods courses from the following:	
	CSCI3150#, 3160#, 3170#, 3230#, 3320#, 4130#, 4160#, 4180#, 4190#, 4230#,	
	DOTE[DSME]4070#, 4220#, ECON3121#, 4120#, FINA3220, 3221, 3222, 3290, 3295,	
	4210, 3211, 4220, 4221, 4250, MATH3215#, 3230#, 3240#, 3270#, 3280#, 3290#, 3310#,	
	3320#, 3330#, 4220#, 4230#, 4240#, 4280#, SEEM3440#, STAT3006#, 3007#, 3008#,	
	4001#, 4002#, 4003#, 4004#, 4005#, 4006#, 4008#, 4010#, 4012#	
(b)	At least 12 units of Business courses from the following, including at least 6 units of FINA courses, with at most 6 one-unit courses:	
	ACCT2121, 2151 or 3151#, 4212# or 4213# or 4214#, 4251#, FINA2210, 3010, 3020, 3030,	
	3040, 3060, 3070, 3090, 3110, 3210, 3230, 3240, 3310, 3320, 3330, 3340, 3350, 3360, 3370,	
	3398, 3399, 3420, 4010, 4020, 4030, 4040, 4050, 4060, 4310, 4320, 4330, 4340, 4350, 4400,	
	4410, MGNT1020, 2611, 4010#, MKTG2010#	
(c)	At least 12 units of Core courses from the following:	
	FINA4110, 4120, 4130(capstone course), 4140(capstone course), 4150(capstone course),	
	4160(capstone course), 4190(capstone course), 4370(capstone course), 4380(capstone	
	course), 4390[b] (capstone course), 4420, 4430(capstone course), 6232(capstone course),	
	6242(capstone course), 6252(capstone course)	
	Total:	72
	bject area code "DSME" changed to "DOTE" with effect from 2024-25.	
-	natory Notes: FINA courses at 2000 and above level as well as those labeled with # will be included	in the
1.	calculation of Major GPA for honours classification.	in the
2.	Non-JUPAS admittees and JUPAS admittees without HKDSE Mathematics Extended Modu	les I or
	II are required to take MATH1530 before taking MATH1010 or 1018, except those who p	
	Mathematics Placement Test arranged by the Programme.	
3.	Completion of an eligible second major or minor programme from the Faculty of Engi	
	(Computer Science, Electronic Engineering, Information Engineering, Web and Cloud Com	
	or the Faculty of Science (Mathematics, Physics, Risk Management Science, Statistics) is dee	emed to

or the Faculty of Science (Mathematics, Physics, Risk Management Science, Statistics) is deemed to have satisfied 4(a) Quantitative Methods area of elective courses requirement. Only relevant courses listed under 4(a) will be included in the calculation of Major GPA.

- [a] Students are advised to take MGNT2512 once their Global Experiential Learning Activities are completed.
- [b] Subject to the approval of the major programme, students who have completed the Co-operative Education Programme are deemed to have fulfilled the core requirement FINA4390.

	Recommended Course Pattern	Units
First Year of	1 <sup>st</sup> term	
Attendance	Faculty Package: ACCT1111, DOTE[DSME]1030	6
	Faculty Co-curricular Courses: MGNT2511	1
	Major Required: MATH1010 or 1018	3
	Major Elective(s):	
	2 <sup>nd</sup> term	
	Faculty Package: DOTE[DSME]1040	3
	Faculty Co-curricular Courses: IBBA3040	1
	Major Required: FINA2010, MATH1030 or 1038	6
	Major Elective(s):	
Second Year	1 <sup>st</sup> term	
of Attendance	Major Required: CSCI1510 or 1520 or 1530 or 1540 or 1550 or1580, DOTE[DSME]2011 or STAT2001, MATH2010 or 2018	9-10
	Major Elective(s): 3 units from Quantitative Methods and Business electives	3
	2 <sup>nd</sup> term	
	Major Required: ACCT3142 or CSCI2100 or 2520 or	9
	DOTE[DSME]2051 or SEEM3550, DOTE[DSME]2021 or	
	FINA2020 or STAT2006, FINA3080	
	Major Elective(s): 3 units from Quantitative Methods and Business electives	3
Third Year of	1 <sup>st</sup> term	
Attendance	Major Required:	
	Major Elective(s): 12 units from Quantitative Methods, Business, and Core electives	12
	2 <sup>nd</sup> term	
	Major Required:	
	Major Elective(s): 12 units from Quantitative Methods, Business, and	12
	Core electives	
Fourth Year	1 <sup>st</sup> term	
of Attendance	Major Required:	
	Major Elective(s): 3 units from Quantitative Methods, Business, and	3
	Core electives	
	2 <sup>nd</sup> term	
	Faculty Co-curricular Courses: MGNT2512	1
	Major Required:	
	Major Elective(s):	
	Total (including Faculty Package):	72

Course List			
Course Code	Course Title	Unit(s)	
Faculty Package			
ACCT1111	Foundations in Financial Accounting	3	
DOTE[DSME]1030	Economics for Business Studies I	3	
DOTE[DSME]1040	Economics for Business Studies II	3	
Faculty Co-curricular	Courses		
IBBA3040	Business Lecture Series	1	
MGNT2511	Global Experiential Learning I	1	
MGNT2512	Global Experiential Learning II	1	
Required Courses			

CSCI1510 Computer Principles and C Programming 3   CSCI1520 Computer Principles and Java Programming 3   CSCI1530 Computer Principles and Java Programming 3   CSCI1550 Computer Principles and Java Programming 3   CSCI1550 Computer Principles and Python Programming 3   CSCI1500 Data Structures 3   CSCI2520 Data Structures 3   DOTEJDSMEJ2011 Statistical Analysis for Business Decisions 3   DOTEJDSMEJ201 Introduction to Empirical Methods in Finance 3   FINA2020 Introduction to Empirical Methods in Finance 3   MATH1018 Honours University Mathematics 3 3   MATH1018 Honours Advanced Calculus 1 3 3   MATH2010 Advanced Calculus 1 3 3   STAT2001 Basic Concepts in Statistics and Probability II <th>ACCT3142</th> <th>Contemporary Accounting Information Systems</th> <th>3</th>	ACCT3142	Contemporary Accounting Information Systems	3
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	Environment for Business	2
	less Law	3
	Business Valuation and Analysis	3
	cial Statement Analysis and Valuation	3
	ed Financial Statement Analysis	3
ACCT4251 Regul	lation and Compliance in the Financial Markets	3
FINA2210 Intere	est Theory and Finance	3
FINA3010 Finan	cial Markets	3
FINA3020 Intern	national Finance	3
FINA3030 Mana	gement of Financial Institutions	3
FINA3040 Centra	al Banking and Regulations of Financial Institutions	3
FINA3060 Real I	Estate Finance and Investment	3
FINA3070 Corpo	brate Finance: Theory and Practice	3
FINA3090 Under	rstanding China's Financial System	3
	s in Finance	3
FINA3210 Risk I	Management and Insurance	3
FINA3230 Life a	ind Health Insurance	3
FINA3240 Corpo	orate Property and Liability Insurance	3
	luction to Investment Banking	1
	luction to Credit Rating	1
	luction to Alternative Investment	1
	ng Strategies: Behavioral and Technical Analysis	1
	gn Exchange Market Practices	1
	ative Warrants, Proprietary and Arbitrage Trading Concepts	1
	luction to Bloomberg and Reuters	1
	al Issues in Finance	1
	nt Issues in Finance	1
	t Rating in Global Economy	3

FINA4010	Security Analysis	3
FINA4020	Fund Management and Asset Allocation	3
FINA4030	Selected Topics in Finance	3
FINA4040	Cases in Corporate Finance	3
FINA4050	Mergers and Acquisitions	3
FINA4060	China Finance	3
FINA4310	China Banking and Financial System	1
FINA4320	China Equity Securities Market	1
FINA4330	China Derivative Securities Market	1
FINA4340	Structured Products: Fundamentals and Analysis	1
FINA4350	Bond Markets: Analysis and Strategies	1
FINA4400	Behavioral Finance	3
FINA4410	Current Developments in FinTec	3
MGNT1020	Management	3
MGNT2611	Business Sustainability	2
MGNT4010	Strategic Management	3
MKTG2010	Marketing Management	3
Core		
FINA4110	Options and Futures	3
FINA4120	Fixed Income Securities Analysis	3
FINA4130	Empirical Finance	3
FINA4140	Computational Finance	3
FINA4150	Quantitative Methods for Financial Derivatives	3
FINA4160	Intermediate Financial Theory	3
FINA4190	Research Project in Quantitative Finance	3
FINA4370	Derivatives Trading: Analysis and Strategies	3
FINA4380	Algorithmic Trading Strategies, Arbitrage and HFT	3
FINA4390	Banking and Finance Practicum	3
FINA4420	Financial Markets from Macro Perspective	3
FINA4430	Computerized Trading and Big Data	3
FINA6232	Seminar in Asset Pricing	3
FINA6242	Seminar in Corporate Finance	3
FINA6252	Empirical Methods in Asset Pricing	3