#### Program Information

 Academic Program:
 (334 new curriculum) B.Eng. in Financial Technology

 Academic Year:
 2023

Select Language: English

# Study Scheme Learning Outcomes

# Study Scheme

Financial Technology Applicable to students admitted in 2023-24

Major Programme Requirement					
Students are required to complete a minimum of 75 units of courses as follows:					
1.	Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	Units 9			
2.	Foundation Courses: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a]	13			
3. (a)	Required Courses: CSCI2100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306, ECON2011#, FINA2310#, FTEC2101/ESTR2520, FTEC3001, 3002, SEEM3500#/ESTR3506, SEEM3590#/ESTR3509	30			
(b)	Research Component Courses[b]: FTFC4098_4090	6			
(c)	Practicum Course: ETE(2562	1			
(d)	Legal Course: FTEC2001	2			
4. (a) (b)	Elective Courses: At least 6 units from FTEC4001, 4002, 4003, FTEC4004/IERG4004#, FTEC4005, 4006, 4007, 4008 Courses from at least 3 subject areas[c]: ACCT2111#, AIST4010#/ESTR4140, CSCI2040#, 2120#, CSCI3150#/ESTR3102, CSCI3160#/ESTR3104, CSCI3320#, CSCI4160#/ESTR4104, CSCI4180#/ESTR4106, CSCI4430#/IERG3310#/ESTR3310/ESTR4120, ECON2021#[d], ENGG1820, FINA3020#, 3030#, 3070#, 3210#, 4010#, IERG4080#/ESTR4312, IERG4210#, MKTG4120#, SEEM3410#, SEEM3450#/ESTR3502, SEEM3570#/ESTR3508, SEEM3580#, SEEM4730#/ESTR4508	14			
× 11.	Total:	75			
In addit themsel	tion to fulfilling the above Major Programme Requirement, students may ves by taking the following stream offered by the Faculty:	ay also challenge			
Engined Elective 15 units i) ii)	ering Leadership, Innovation, Technology and Entrepreneurship (EL Courses: of courses[f]: 12 units of ESTR courses of which at most 6 units of courses at 1000 of at least 6 units of courses at 3000 or 4000 level[g] 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM level[h]	ITE) Stream[e] or 2000 level and courses at 5000			
Explana 1. [a]	<ul> <li>tory Notes:</li> <li>ENGG, ESTR and FTEC courses at 2000 and above level as well as the will be included in the calculation of Major GPA for honours classific courses in the Faculty Package and Foundation Courses.</li> <li>i) Non-JUPAS admittees and JUPAS admittees with HKDS Extended Modules I or II are required to attend a Mathematics Students who fail or are absent from the Placement Test will be MATH1020 in the same term when they take MATH1510.</li> <li>ii) JUPAS admittees without HKDSE Mathematics Extended Morequired to take MATH1510 in Term 1 will have to retake the 2. The nre-assigned course ENGGU30 will also be drowned</li> </ul>	hose labeled as # cation, excluding BE Mathematics Placement Test. required to take dules I or II are e course in Term			

- 2. The pre-assigned course, ENGGT130, Will also be dropped.
   [b] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for FTEC4998 and 4999. These 6 units cannot be used to fulfill the Elective Courses requirement of the ELITE Stream.
- [c] ESTR courses will be counted as their reciprocal departmental subject areas.
- [d] Students who intend to pursue the Bachelor of Engineering (Financial Technology) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option should not take the elective course ECON2021 because the required course DOTE[DSME]1040 of the Integrated BBA Programme is not for students who have

	taken ECON2021.
[e]	Details of the entrance and coursework requirements, and declaration procedures for the
	ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite).
	Non-ELITE Engineering students may be allowed to take ESTR courses. Students are
	required to seek approval from their respective Major Programmes for using ESTR
	courses taken to fulfill the Major Programme Requirement. Details are available at the
	ELITE website.
[f]	Students can use up to 9 units of courses which have been taken to fulfill the
	requirements of items 1 to 4 above to fulfill the elective requirements of the ELITE
	Stream. Item 3(b) Research Component Courses will not be included in these 9 units. A
	full list of ESTR courses is available at the ELITE website.

- [g] Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education).
- [h] The requirement of at least 3 units of Engineering courses at 5000 level is a requirement for the ELITE Stream only. It should not be interpreted as a requirement of the Major Programme.
- [] Subject area code "DSME" changed to "DOTE" with effect from 2024-25.

	Recommended Course Pattern	Units
First Year of Attendance	1 <sup>st</sup> term Faculty Package:	
	Major Required: FINA2310, MATH1510 Major Elective(s):	6
	2 <sup>nd</sup> term Faculty Package: ENGG1110/ESTR1002,	9
	ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: ECON2011 Major Elective(s):	3
Second Year of Attendance	1 <sup>st</sup> term Major Required: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, SEEM2520 Major Elective(s):	11
	2 <sup>nd</sup> term Major Required: CSCI2100/ESTR2102, ENGG2780/ESTR2020, FTEC2001, FTEC2101/ESTR2520, FTEC2602 Major Elective(s):	11
Third Year of Attendance	1 <sup>st</sup> term Major Required: CSCI4130/IERG4130/ESTR4306, FTEC3001 or 3002, SEEM3590/ESTR3509 Major Elective(s):	9
	2 <sup>nd</sup> term Major Required: FTEC3001 or 3002, SEEM3550/ESTR3506 Major Elective(s): 1 course	6 3
Fourth Year of Attendance	1 <sup>st</sup> term Major Required: FTEC4998 Major Elective(s): 2 courses	3 6
	2 <sup>nd</sup> term Major Required: FTEC4999 Major Elective(s): 2 courses	3 5
	iotal (including Faculty Package):	/5

	Recommended Course Pattern for CUHK students in	Units
	fulfillment of requirements of the DDP with Peking	
First Veen of	Easulty Deckage 2 courses	At least 22
Attendance	Major Required: MATH1510	units including
(Study at PKU)	University Core: 2 PHED courses	courses to be
Second Year of Attendance (Study at PKU)	Faculty Package: 1 course Major Required: CSCI2100/ESTR2102, ECON2011, ENGG2760/ESTR2018, FINA2310, SEEM2520 University Core: 2 University GE courses of 4 units (in Areas A and C)[b]	transferred to CUHK[a]
Third Year of	1 <sup>st</sup> term[c]	
Attendance	Major Required: CSCI1120/1130/ESTR1100/1102,	9
(Study at	CSCI4130/IERG4130/ESTR4306[d], ENGG2440/ESTR2004	
СИНК)	University Core: CHLT1001, ELTU1001 or 1002, ENGG1004	9
	2 <sup>nd</sup> term	
	Major Required: ENGG2780/ESTR2020, FTEC2001[d], FTEC2101/ESTR2520[f], FTEC2602, FTEC3001 or 3002[d], SEEM3550/ESTR 3506[d]	14
	University Core: CHLT1002, 0-1 College GE course [d][g], 0-2 courses from Understanding China and Hong Kong in the Wider Constitutional Order	4
	Summer Session University Core: 1 UGFH/UGFN course[d]	3

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Fourth Year of Attendance (Study at CUHK)		1 <sup>st</sup> term Major Required: FTEC300 SEEM3590/ESTR3509 Major Elective(s): 1 course University Core: ELTU3x: courses from Understandii Wider Constitutional Orde 2 <sup>nd</sup> term	01 or 3002[d], FTEC e[e] xx, 1 College GE co ng China and Hong I r	24998[h], urse[d][g], 0-2 Kong in the	9 3 5-6
		Major Required: FTEC499 Major Elective(s): 4 cours	99[h] es[e]		3 12
		University Core: 1 UGFH	UGFN course[d]	kon at CUHK:	3
		Units taken a	t PKU and recogniz	zed by CUHK:	32
			0	Total:	106-107[e][i]
Explaı [a]	natory Notes: Mutual rec	ognition of courses: CUHK	requirement to be f	ulfilled by PKU c	ourses
	CUHK C	ourses		PKU Courses	
	ENGG11	10 Problem Solving by	Programming	Intro to Comput	ing
	ENGG112	20 Linear Algebra for I	Engineers	Advanced Algel	ora I, II
	ENGG11	30 Multivariable Calcu	lus for Engineers	Mathematical Analysis III	
	MATH15	Calculus for Engineers N		Mathematical A	ny nalysis L II
	CSCI210	Data Structures	Data Structures	inary 515 1, 11	
	ECON20	11 Basic Microeconom	Basic Microeconomics M		
	FINA231	0 Fundamentals of Business Finance Corporate Fina			ice
<b>1</b> 11	SEEM252	20 Fundamental in Fina	ancial Engineering	Introduction to l	Financial Math
	Requireme courses at Full-time U	nts of CUHK in Areas A and CUHK before graduation Indergraduate Studies for d	nd C. Students shou and may refer to th etails.	ld complete the m e General Regula	ninimum units c ntions Governin
	PKU	eu courses offereu by	Recommendation	IS IFOID OUGE	
	2033530	Ancient Chinese Culture	The course can be course of UGEA2 <i>Culture</i> (3 units), a A can be granted.	considered as an 110 An Introduction of and exemption of	equivalent on to Chinese 3 units in Area
	3032360	History of Chinese Culture	The course can be course of UGEA2 <i>Culture</i> (3 units), a A can be granted	considered as an 110 <i>An Introduction</i> and exemption of	equivalent on to Chinese 3 units in Area
	2131110	Politics and Culture in Traditional China	The course can be units in Area A.	considered for ex	empting 3
	1339320	320 The Historical The course can be considered for exe Geography of China units in Area A.		empting 3	
	2431560	American Culture and Society	The course can be units in Area C.	considered for ex	empting 3
	3130280	Gender Studies	The course can be units in Area C. Due to significant with UGEC1209 7 Introduction to Wo course restriction of	considered for ex overlapping in co <i>Thinking Gender:</i> <i>omen's and Gende</i> of UGEC1209 sha	empting 3 urse content An r Studies, all apply.
	1339180	Global Cultural	The course can be	considered for ex	empting 3
	1831990	Inter-cultural	The course can be	considered for ex	empting 3
	<u></u>	Communication	units in Area C.	11 1	1.0 1
[c]	Students ta Registrar	king a term load exceedin	g the maximum wil	ii need to seek ap	pproval from th
[d]	Registrar. Courses taken at CUHK can be transferred to fulfill 19 units of General Education and Free Elective Courses of the requirements of the Bachelor of Science in Financial Mathematics at PKU.				
[e]	In addition to the 5 elective courses, students are required to take another 3 units of courses in order to fulfil 18 units of Selected Major Courses of the requirements of the Bachelor of Science in Financial Mathematics at PKU. In this connection, students need to take a total of 109 to 110 units (instead of 106 to 107 units) at CUHK				
[f]	FTEC2101 units of M Mathematic	/ESTR2520 Optimization I ajor Core Course of the r cs at PKU.	Methods taken at CU equirements of the	JHK can be trans Bachelor of Scie	ferred to fulfill nce in Financia
[g]	The recom students' C	mended course pattern of other of the other of the other of the other of the other o	f College GE cours	ses varies slightl	y depending of
[h]	FTEC4998 Thesis of th	and 4999 taken at CUHK ne requirements of the Bach	can be transferred t nelor of Science in F	to fulfill 3 units o inancial Mathema	f the Graduatio ttics at PKU.
[i]	Students ar	e required to complete at le	east 50 units of Majo	or courses at CUH	K.
		Recommended Course fulfillment of requirement in Financial Technology)	Pattern for PK nts of the DDP with	U students in h CUHK (BEng	Units
First \ Atten	Year of dance	Faculty Package: 2 courses Major Required: MATH15	s 510		At least 27 units including

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	Attendance	Major Required: MATH1510	units including	
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mapo.//c	u010.001111.0000.1110			

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Second Year of Attendance         Faculty Package: 1 course           Major Required: CSCI2100/ESTR2102, ECON2011, (Study at PKU)         ENGG2760/ESTR2018, FINA2310, SEEM2520           Third Year of Attendance         1st term Major Required: CSCI1120/1130/ESTR1100/1102, CSCI4130/IERG4130/ESTR4306[b], ENGG2440/ESTR2004           CUHK)         Major Required: CSCI1120/1130/ESTR100/1102, CSCI4130/IERG4130/ESTR4306[b], ENGG2440/ESTR2004           CUHK)         Major Required: ENGG2780/ESTR2020, FTEC2001[b], FTEC2101/ESTR2520[d], FTEC2602, FTEC2001 or 3002[b], SEEM350/ESTR3506[b]           Fourth Year of Attendance         1st term Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM350/ESTR3506           CUHK)         University Core: ELTU3xxx, 1 College GE course[b][f], University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order           2 <sup>nd</sup> term Major Required: FTEC4999[e] Major Elective(s): 3 courses[c]         University GE (Area A) course[b][g], Uniderstanding China or Hong Kong in the Wider Constitutional Order           University Core: ELTU3xxx, 1 College GE course[b][g], Uniderstanding China or Hong Kong in the Wider Constitutional Order           University Core: ELTU3xxx, 1 College GE course[b][g], Uniderstanding China or Hong Kong in the Wider Constitutional Order           University Core: ELTU3xxx, 1 College GE course[b][g], Uniderstanding China or Hong Kong in the Wider Constitutional Order           University Core: ELTU3xxx, 1 College GE course[b][g], Uniderstanding China or Hong Kong in the Wider Constestate a	transferred to CUHK[a] 9 6 14 3 9 5-6 3 9 5-6 3 9 3 5-6 3 9 3 5-6 <b>61-62</b> <b>27</b> <b>88-89</b> [h]	
Attendance         Major Required: CSCI2100/ESTR2102, ECON2011, ENGG2760/ESTR2018, FINA2310, SEEM2520           Third Year of Attendance         1 <sup>st</sup> term Major Required: CSCI1120/1130/ESTR1100/1102, (Study at CSCI4130/IERG4130/ESTR4306[b], ENGG2440/ESTR2004           CUHK         Major Required: ENGG2780/ESTR2020, FTEC2001[b], FTEC2101/ESTR2520[d], FTEC2602, FTEC3001 or 3002[b], SEEM3550/ESTR3506[b]           Fourth Year of Attendance         1 <sup>st</sup> term Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3550/ESTR3506           Fourth Year of Attendance         1 <sup>st</sup> term Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3590/ESTR3509           CUHK)         University Core: EUTU3xxx, 1 College GE course[b][f], University Core: EUTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order           2 <sup>nd</sup> term Major Required: FTEC4999[e] Major Elective(s): 3 courses[c] University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order           Units taken at PKU and recognized by CUHK Units taken at PKU and recognized by CUHK Explanatory Notes:           [a]         Mutual recognition of courses: CUHK requirement to be fulfilled by PKU ENGG1110           Probability for Engineers         Advanced Alg ENGG1120           ENGG2760         Probability for Engineers           ENGG2100         Data Structures           Data Structures         Data Structures           EON2011         Basic Microeconomics           E	CUHK[a] 9 6 14 3 9 5-6 3 9 5-6 3 9 3 6 6 1-62 27 88-89[h]	
Study at PKU)         ENGG2/00/ESTR2016, FINA2510, SEEM2520           Third Year of CUHK)         1 <sup>st</sup> term           Major Required: CSCI1120/1130/ESTR1100/1102, CSCI4130/IERG4130/ESTR4306[b], ENGG2440/ESTR2004           Major Required: ENGG2780/ESTR2020, FTEC2001[b], FTEC2101/ESTR2520[d], FTEC2602, FTEC3001 or 3002[b], SEEM3550/ESTR3506[b]           University Core: 1 UGFH/UGFN course[b]           Fourth Year of Attendance (Study at CUHK)           University Core: 1 UGFH/UGFN course[b]           Ist term           Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3590/ESTR3509           CUHK)           University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order           2 <sup>nd</sup> term           Major Required: FTEC4999[c]           Major Required: FTEC4999[c]           Major Elective(s): 3 courses[c]           University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order           Z <sup>nd</sup> term           Major Elective(s): 3 courses[c]           Units taken at PKU and recognized by CUHK Units taken at PKU and recognized by CUHK           Explanatory Notes:           [a]           Mutual recognition of courses: CUHK requirement to be fulfilled by PKU           ENGG1110         Problem Solving by Programming Intro to Comp ENGG1120           ENGG1130	9 6 14 3 9 5-6 3 9 3 6 1-62 27 88-89[h]	
The term       1 <sup>a</sup> term         Attendance       Major Required: CSCI1120/1130/ESTR1100/1102,         (Study at       CSCI4130/IERG4130/ESTR4306[b], ENGG2440/ESTR2004         CUHK)       2 <sup>nd</sup> term         Major Required: ENGG2780/ESTR2020, FTEC2001[b],         FTEC2101/ESTR2520[d], FTEC2602, FTEC3001 or 3002[b],         SEEM3550/ESTR3506[b]         University Core: 1 UGFH/UGFN course[b]         Fourth Year of         Attendance         (Study at         SEEM3550/ESTR3509         CUHK)         University Core: ELTU3xxx, 1 College GE course[b][f],         Understanding China or Hong Kong in the Wider         Constitutional Order         2 <sup>nd</sup> term         Major Required: FTEC4999[e]         Major Required: FTEC4999[e]         Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]         University Core: 1 University GE (Area A) course[b][g],         Understanding China or Hong Kong in the Wider         Constitutional Order         2 <sup>nd</sup> term         Major Required: FTEC4999[e]         Major Required: SUBMANCHARMANC	9 6 14 3 9 5-6 3 9 3 3 9 3 3 <b>61-62</b> <b>27</b> <b>88-89</b> [h]	
(Study at CUHK)       Major Required: ENGG2780/ESTR4306[b], ENGG2440/ESTR2004         Major Required: ENGG2780/ESTR2020, FTEC2001[b], FTEC2101/ESTR2520[d], FTEC2602, FTEC3001 or 3002[b]. SEEM3550/ESTR3506[b]         Fourth Year of Attendance       1st term         Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3590/ESTR3509         CUHK)       University Core: LTU3xxx, 1 College GE course[b][f], University Core: ELTU3xxx, 1 College GE course[b][f], University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order         2nd term       Major Required: FTEC4999[e]         Major Required: FTEC4999[e]       Major Required: Totate         University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider       Totate         ENG61110       Problem Solving by Programming       Intro to Comp         ENG61110       Problem Solving by Programming       Intro to Comp         ENG61130       Multivariable Calculus for Engineers       Madvanced Alg ENG61130         Multivariable Calculus for Engi	6 14 3 9 5-6 3 9 3-6 <b>61-62</b> <b>27</b> <b>88-89</b> [h]	
CUHK)       Major Elective(s): 2 courses[c]         2 <sup>nd</sup> term       Major Required: ENGG2780/ESTR2020, FTEC2001[b], FTEC2101/ESTR2520[d], FTEC2602, FTEC3001 or 3002[b], SEEM3550/ESTR3506[b]         University Core: 1 UGFH/UGFN course[b]       Fourth Year of         Attendance       Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3590/ESTR3509         CUHK)       University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider         Constitutional Order       2 <sup>nd</sup> term         Major Required: FTEC4999[e]       Major Required: FTEC4999[e]         Major Required: FTEC4999[e]       Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]       University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider         Constitutional Order       Units taken at CUHK         Units taken at PKU and recognized by CUHK       Units taken at PKU and recognized by CUHK         Units taken at PKU and recognized by CUHK       Units taken at CUHK requirement to be fulfilled by PKU         ENGG1110       Problem Solving by Programming       Intro to Comp         ENGG1130       Multivariable Calculus for Engineers       Advanced Alg         ENGG1130       Multivariable Calculus for Engineers       Mathematical         CSC10100       Data Structures       Data Structure         ECM22101       Basic Microeconomics	6 14 3 9 5-6 3 9 3-6 <b>61-62</b> <b>27</b> <b>88-89</b> [h]	
2 <sup>nd</sup> term         Major Required: ENGG2780/ESTR2020, FTEC2001[b],         FTEC2101/ESTR2520[d], FTEC2602, FTEC3001 or 3002[b],         SEEM3550/ESTR3506[b]         University Core: 1 UGFH/UGFN course[b]         Fourth Year of         Attendance         Major Required: FTEC3001 or 3002[b], FTEC4998[e],         SEEM3550/ESTR3509         CUHK)         University Core: ELTU3xxx, 1 College GE course[b][f],         Understanding China or Hong Kong in the Wider         Constitutional Order         2 <sup>nd</sup> term         Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]         University Core: 1 University GE (Area A) course[b][g],         Understanding China or Hong Kong in the Wider         Constitutional Order         University Core: 1 University GE (Area A) course[b][g],         Understanding China or Hong Kong in the Wider         Constitutional Order         Units taken at PKU and recognized by CUHK         Total         Explanatory Notes:         [a]         Mutual recognition of courses: CUHK requirement to be fulfilled by PKU         ENGG1110       Probability for Engineers         Advanced Alg         ENGG1120       Linear Algebra for Engineers         Mathematical	14 3 9 5-6 3 9 3 <b>61-62</b> <b>27</b> <b>88-89</b> [h]	
Major Required: ENGG2780/ESTR2020, FTEC2001[b], FTEC2101/ESTR2520[d], FTEC2602, FTEC3001 or 3002[b], SEEM3550/ESTR3506[b]         Fourth Year of Attendance       1st term         Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3550/ESTR3509         CUHK)       University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order         2 <sup>nd</sup> term       Major Required: FTEC4999[c] Major Elective(s): 3 courses[c] University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order         2 <sup>nd</sup> term       Major Elective(s): 3 courses[c]         University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order         Units taken at CUHK         CUHK Courses         PKU Courses         ENGG1110       Probability for En	14 3 9 5-6 3 9 3 <b>61-62</b> <b>27</b> <b>88-89</b> [h]	
FIEC/10/ESTR3506[b]         University Core: 1 UGFH/UGFN course[b]         Fourth Year of Attendance         Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3550/ESTR3509         CUHK)       University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order         2 <sup>nd</sup> term       Major Required: FTEC4999[e] Major Elective(s): 3 courses[c] University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order         Units taken at CUHK         Units taken at CUHK         Units taken at CUHK         Value State at PKU and recognized by CUHK         Total         Value State at PKU Courses         ENGG1110       Problem Solving by Programming       Intro to Comp         ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG120       Linear Algebra for Engineers       Mathematical         CSC12100       Data Structures       Data Structure         ECON2011       Basic Microeconomics       Microeconom         FINA2310       Fundamentals of Business Finance       Corporate Final         SEEM2520       Fundamentals of Business Finance       Corporate Final         SEEM2520       Fundamentals of Business Finance       Corporate Fina	3 9 5-6 3 9 3 6 1-62 27 88-89[h]	
University Core: 1 UGFH/UGFN course[b]           Fourth Year of Attendance (Study at CUHK)         1st term Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3590/ESTR3509           CUHK)         University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order           2 <sup>nd</sup> term         Major Required: FTEC4999[e] Major Required: FTEC4999[e] Major Required: FTEC4999[e] University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order           Units taken at CUHK Units taken at PKU and recognized by CUHK Total           Explanatory Notes:           [a]         Mutual recognition of courses: CUHK requirement to be fulfilled by PKU           CUHK Courses ENGG1110 Problem Solving by Programming Intro to Comp ENGG120 Linear Algebra for Engineers           ENGG1120 Data Structures         Probability Th MATH1510 Calculus for Engineers         Mathematical CSC12100 Data Structures           Data Structures           Data Structures           Data Structures           Data Structures           Data Structures           Advanced Alg ENGG120 Fundamental in Financial Engineering           Introduction to FINA2310 Fundamental of Business Finance           Corporate Fin SEEM2520 Fundamental in Financial Engineering <th colspan<="" td=""><td>3 9 5-6 3 9 3 61-62 27 88-89[h]</td></th>	<td>3 9 5-6 3 9 3 61-62 27 88-89[h]</td>	3 9 5-6 3 9 3 61-62 27 88-89[h]
Fourth Year of Attendance       1st term         Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3590/ESTR3509         CUHK)       University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider         Constitutional Order       2 <sup>nd</sup> term         Major Required: FTEC4999[e]       Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]       University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider         Constitutional Order       Constitutional Order         Units taken at CUHK         ENGG1110         Problem Solving by Programming         ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG120       Linear Algebra for Engineers       Mathematical         ENGG120       Data Structures       Data Structure         ECON2011       Basic Micrococonomics       Microeconom	9 5-6 3 9 3 61-62 27 88-89[h]	
Attendance (Study at (Study at CUHK)       Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3590/ESTR3509         CUHK)       University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order         2 <sup>nd</sup> term       Major Required: FTEC4999[e] Major Elective(s): 3 courses[c] University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order         Units taken at CUHK Units taken at PKU and recognized by CUHK Total         Explanatory Notes:         [a]       Mutual recognition of courses: CUHK requirement to be fulfilled by PKU         CUHK Courses         ENGG1110       Problem Solving by Programming         ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG1130       Multivariable Calculus for Engineers       Mathematical         ENGG2760       Probability for Engineers       Mathematical         ECU100       Data Structures       Data Structure         ECON2011       Basic Microeconomics       Microeconom         FINA2310       Fundamentals of Business Finance       Corporate Fina         SEEM2520       Fundamentals of Susiness Finance       Corporate Fina         SEEM2520       Fundamental in Financial Engineering       Introduction to a PKU.         [c]       In addition to the 5 elective courses,	9 5-6 3 9 3 <b>61-62</b> <b>27</b> <b>88-89</b> [h]	
CUHK)       SEEM3590/ESTR3509         CUHK)       University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order         2 <sup>nd</sup> term       Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]       University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order         Units taken at CUHK         Mathematical         ENGG110         Problem Solving by Programming         Intro to Comp         ENGG1130         Mutual recognition of courses: CUHK requirements of the flaited by PKU         ENGG1110         Probability for Engineers <td c<="" td=""><td>5-6 3 9 3 <b>61-62</b> <b>27</b> <b>88-89</b>[h]</td></td>	<td>5-6 3 9 3 <b>61-62</b> <b>27</b> <b>88-89</b>[h]</td>	5-6 3 9 3 <b>61-62</b> <b>27</b> <b>88-89</b> [h]
Inderstanding China or Hong Kong in the Wider         Constitutional Order         2nd term         Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]         University Core: 1 University GE (Area A) course[b][g],         Understanding China or Hong Kong in the Wider         Constitutional Order         Units taken at CUHK         Understanding China or Hong Kong in the Wider         Constitutional Order         Units taken at CUHK         Units taken at CUHK         Units taken at PKU and recognized by CUHK         Explanatory Notes:         [a]         Mutual recognition of courses: CUHK requirement to be fulfilled by PKU         CUHK Courses       PKU Courses         ENGG1110       Problem Solving by Programming         ENGG1120       Linear Algebra for Engineers         Advanced Alg       ENGG120         ENGG120       Linear Algebra for Engineers         Mathematical       ENGG120         ENGG120       Data Structures         Data Structures       Data Structure         ECON2011       Basic Microeconomics       Microeconom         FINA2310       Fundamentals of Business Finance       Corporate Fina SteEM2520         Fundamentals of Business Finance       C	3 9 3 61-62 27 88-89[h]	
Constitutional Order         2 <sup>nd</sup> term         Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]         University Core: 1 University GE (Area A) course[b][g],         Understanding China or Hong Kong in the Wider         Constitutional Order         Units taken at CUHK         Constitutional Order         Units taken at CUHK         CUHK Courses         PKU Courses         ENGG1110       Problem Solving by Programming       Intro to Comp         ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG2760       Probability for Engineers       Mathematical         CSC12100       Data Structures       Data Structure         ECON2011       Basic Microeconomics       Microeconom         FINA2310       Fundamental in Financial Engineering       Introduction to the         SEEM2520       Fundament	3 9 3 61-62 27 88-89[h]	
2nd term         Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]         University Core: 1 University GE (Area A) course[b][g],         Understanding China or Hong Kong in the Wider         Constitutional Order         Units taken at CUHK         Constitutional Order         Units taken at CUHK         Units taken at CUHK         Total         Explanatory Notes:         [a]       Mutual recognition of courses: CUHK requirement to be fulfilled by PKU         CUHK Courses         ENGG1110       Problem Solving by Programming         Intro to Comp       ENGG1120       Linear Algebra for Engineers         Advanced Alg       ENGG1130       Multivariable Calculus for Engineers         Mathematical       CSC12100       Data Structures         Data Structures       Data Structure       ECON2011         BEEM2520       Fundamental in Financial Engineering       Introduction to the S elective courses, students are required to take another in order to fulfil 18 units of Selected Major Courses of the requirements Science in Fina at PKU.	3 9 3 61-62 27 88-89[h]	
Major Required: FTEC4999[e]         Major Elective(s): 3 courses[c]         University Core: 1 University GE (Area A) course[b][g],         Understanding China or Hong Kong in the Wider         Constitutional Order         Units taken at CUHK         Constitutional Order         Units taken at CUHK         Units taken at CUHK         Units taken at CUHK         Units taken at CUHK         Explanatory Notes:         [a]       Mutual recognition of courses: CUHK requirement to be fulfilled by PKU         CUHK Courses         ENGG1110       Problem Solving by Programming       Intro to Comp         ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG1130       Multivariable Calculus for Engineers       Mathematical         ENG2760       Probability for Engineers       Mathematical         CSC12100       Data Structures       Data Structure         ECON2011       Basic Microeconomics       Microeconom         FINA2310       Fundamentals of Business Finance       Corp	3 9 3 61-62 27 88-89[h]	
Major Elective(s): 3 courses[c]         University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order         Units taken at CUHK         Explanatory Notes:         [a]       Mutual recognition of courses: CUHK requirement to be fulfilled by PKU         CUHK Courses         ENGG1110       Problem Solving by Programming         ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG2760       Probability for Engineers       Mathematical         EON2011       Basic Microeconomics       Microeconom         FUA2310       Fundamentals of Business Finance       Corporate Fin         SEEM2520       Fundamental in Financial Engineering       Introduction to the         [b]       Courses taken at CUHK can be transferred to fulfill 19 units of General F       Elective Courses of the requirements of	9 3 61-62 27 88-89[h]	
Implementation       Implementation         Implementation       Implementa	61-62 27 88-89[h]	
Constitutional Order         Units taken at CUHK         Units taken at CUHK         Units taken at CUHK         Units taken at PKU and recognized by CUHK         Total         Explanatory Notes:         [a]       Mutual recognition of courses: CUHK requirement to be fulfilled by PKU         CUHK Courses         ENGG1110       Problem Solving by Programming       Intro to Comp         ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG1130       Multivariable Calculus for Engineers       Mathematical         ENGG2760       Probability for Engineers       Mathematical         CSCI2100       Data Structures       Data Structure         ECON2011       Basic Microeconomics       Microeconom         FINA2310       Fundamentals of Business Finance       Corporate Fini         SEEM2520       Fundamental in Financial Engineering       Introduction to         [b]       Courses taken at CUHK can be transferred to fulfill 19 units of General E       Elective Courses of the requirements of the Bachelor of Science in Fina at PKU.         [c]       In addition to the 5 elective courses, students are required to take another in order to fulfill 18 units of Selected Major Courses of the requirements         <th colspan="2</td> <td>61-62 27 88-89[h]</td>	61-62 27 88-89[h]	
Units taken at CUHK           Units taken at PKU and recognized by CUHK           Total           Explanatory Notes:         Total           [a]         Mutual recognition of courses: CUHK requirement to be fulfilled by PKU           CUHK Courses         PKU Courses           ENGG1110         Problem Solving by Programming           Intro to Comp         ENGG1120           Linear Algebra for Engineers         Advanced Alg           ENGG1130         Multivariable Calculus for Engineers           MATH1510         Calculus for Engineers           MATH1510         Calculus for Engineers           ECN2011         Basic Microeconomics           FINA2310         Fundamentals of Business Finance           Courses taken at CUHK can be transferred to fulfill 19 units of General F           Elective Courses of the requirements of the Bachelor of Science in Fina at PKU.           [c]         In addition to the 5 elective courses, students are required to take another in order to fulfill 18 units of Selected Major Courses of the requirements Science in Financial Mathematics at PKU.           [c]         In addition to the 5 elective courses, students are required to take another in order to fulfill 18 units of Selected Major Courses of the requirements Science in Financial Mathematics at PKU.           [c]         In addition to the 5 elective courses, students ar	61-62 27 88-89[h]	
Units taken at PKU and recognized by CUHK           Total           Explanatory Notes:         Total           Explanatory Notes:         Mutual recognition of courses: CUHK requirement to be fulfilled by PKU           CUHK Courses         PKU Courses           ENGG1110         Problem Solving by Programming         Intro to Comp           ENGG1120         Linear Algebra for Engineers         Advanced Alg           ENGG1130         Multivariable Calculus for Engineers         Mathematical           ENGG2760         Probability for Engineers         Probability The Mathematical           CSCI2100         Data Structures         Data Structure           ECON2011         Basic Microeconomics         Microeconom           FINA2310         Fundamentals of Business Finance         Corporate Fim           SEEM2520         Fundamental in Financial Engineering         Introduction to the           Elective Courses of the requirements of the Bachelor of Science in Fina at PKU.         In addition to the 5 elective courses, students are required to take another in order to fulfill 18 units of Selected Major Courses of the requirements Science in Financial Mathematics at PKU. In this connection, students r of 91 to 92 units (instead of 88 to 89 units) at CUHK.           [d]         ETEC2101/ESTR2520         Optimization Methods taken at CUHK con ba tree	27 88-89[h]	
Iotal         Explanatory Notes:       Pku courses:         [a]       Mutual recognition of courses: CUHK requirement to be fulfilled by PKU         CUHK Courses       PKU Courses         ENGG1110       Problem Solving by Programming       Intro to Comp         ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG1130       Multivariable Calculus for Engineers       Mathematical         ENGG2760       Probability for Engineers       Probability Th         MATH1510       Calculus for Engineers       Mathematical         CSCI2100       Data Structures       Data Structure         ECON2011       Basic Microeconomics       Microeconom         FINA2310       Fundamentals of Business Finance       Corporate Fim         SEEM2520       Fundamental in Financial Engineering       Introduction to         [b]       Courses taken at CUHK can be transferred to fulfill 19 units of General F       Elective Courses of the requirements of the Bachelor of Science in Fina at PKU.         [c]       In addition to the 5 elective courses, students are required to take another in order to fulfill 18 units of Selected Major Courses of the requirements Science in Financial Mathematics at PKU. In this connection, students r of 91 to 92 units (instead of 88 to 89 units) at CUHK.         [d]       FTEC2101/ESTR2520 Ontimization Methods taken at CUHK can be trestore of 91 t	: <b>88-89</b> [h]	
<ul> <li>[a] Mutual recognition of courses: CUHK requirement to be fulfilled by PKU</li> <li>CUHK Courses</li> <li>PKU Courses</li> <li>ENGG1110</li> <li>Problem Solving by Programming</li> <li>Intro to Comp ENGG1120</li> <li>Linear Algebra for Engineers</li> <li>Advanced Alg</li> <li>ENGG1130</li> <li>Multivariable Calculus for Engineers</li> <li>Mathematical</li> <li>ENGG2760</li> <li>Probability for Engineers</li> <li>Probability Th</li> <li>MATH1510</li> <li>Calculus for Engineers</li> <li>Mathematical</li> <li>CSCI2100</li> <li>Data Structures</li> <li>Data Structure</li> <li>ECON2011</li> <li>Basic Microeconomics</li> <li>Microeconom</li> <li>FINA2310</li> <li>Fundamentals of Business Finance</li> <li>Corporate Financial Engineering</li> <li>Introduction to</li> <li>SEEM2520</li> <li>Fundamental in Financial Engineering</li> <li>Introduction to</li> <li>Elective Courses of the requirements of the Bachelor of Science in Financial the PKU.</li> <li>[c] In addition to the 5 elective courses, students are required to take another in order to fulfil 18 units of Selected Major Courses of the requirements Science in Financial Mathematics at PKU. In this connection, students r of 91 to 92 units (instead of 88 to 89 units) at CUHK.</li> <li>[d] ETEC2101/ESTR2520 Optimization Methods taken at CUHK can be transitional t</li></ul>		
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ENGG1120       Linear Algebra for Engineers       Advanced Alg         ENGG1130       Multivariable Calculus for Engineers       Mathematical         ENGG2760       Probability for Engineers       Probability T         MATH1510       Calculus for Engineers       Probability T         MATH1510       Calculus for Engineers       Mathematical         CSCI2100       Data Structures       Data Structure         ECON2011       Basic Microeconomics       Microeconom         FINA2310       Fundamentals of Business Finance       Corporate Fin         SEEM2520       Fundamental in Financial Engineering       Introduction to         [b]       Courses taken at CUHK can be transferred to fulfill 19 units of General E       Elective Courses of the requirements of the Bachelor of Science in Fina at PKU.         [c]       In addition to the 5 elective courses, students are required to take another in order to fulfill 18 units of Selected Major Courses of the requirements Science in Financial Mathematics at PKU. In this connection, students r of 91 to 92 units (instead of 88 to 89 units) at CUHK.       FTEC2101/ESTR2520 Ontimization Methods taken at CUHK can be transferred to the store at CUHK can be transferred to 91 to 92 units (instead of 88 to 89 units) at CUHK.	uting	
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ECON2011         Basic Microeconomics         Microeconom           FINA2310         Fundamentals of Business Finance         Corporate Fin           SEEM2520         Fundamental in Financial Engineering         Introduction to           [b]         Courses taken at CUHK can be transferred to fulfill 19 units of General E         Elective Courses of the requirements of the Bachelor of Science in Fina           at PKU.         [c]         In addition to the 5 elective courses, students are required to take another           in order to fulfil 18 units of Selected Major Courses of the requirements         Science in Financial Mathematics at PKU.           [c]         In this connection, students r         of 91 to 92 units (instead of 88 to 89 units) at CUHK.           [d]         ETEC2101/ESTR2520 Optimization Methods taken at CUHK can be transference.         EVEN be transference.	S	
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<ul> <li>at PKU.</li> <li>[c] In addition to the 5 elective courses, students are required to take another in order to fulfil 18 units of Selected Major Courses of the requirements Science in Financial Mathematics at PKU. In this connection, students r of 91 to 92 units (instead of 88 to 89 units) at CUHK.</li> <li>[d] ETEC2101/ESTR2520 Optimization Methods taken at CUHK can be trans-</li> </ul>	ncial Mathematic	
<ul> <li>[c] In addition to the 5 elective courses, students are required to take another in order to fulfil 18 units of Selected Major Courses of the requirements Science in Financial Mathematics at PKU. In this connection, students r of 91 to 92 units (instead of 88 to 89 units) at CUHK.</li> <li>[d] ETEC2101/ESTR2520 Optimization Methods taken at CUHK can be trans-</li> </ul>	2	
Science in Financial Mathematics at PKU. In this connection, students r of 91 to 92 units (instead of 88 to 89 units) at CUHK. [d] FTEC2101/ESTR2520 Optimization Methods taken at CUHK can be tran	of the Bachelor of	
of 91 to 92 units (instead of 88 to 89 units) at CUHK. [d] FTFC2101/FSTR2520 Optimization Methods taken at CUHK can be trac	eed to take a tota	
[d] FTEC2101/ESTR2520 Ontimization Methods taken at CUHK can be tran		
[1] TIESTOTESTRESS Optimization Methods taken at COTIK call be that	sferred to fulfill	
units of Major Core Course of the requirements of the Bachelor of Sc Mathematics at PKU	ence in Financia	
[e] FTEC4998 and 4999 taken at CUHK can be transferred to fulfill 3 units	of the Graduation	
Thesis of the requirements of the Bachelor of Science in Financial Mather	natics at PKU.	
[f] The recommended course pattern of College GE courses varies sligh	tly depending of	
[g] The 2 units of University GE Area A course can be replaced by	an additional Gl	
Foundation course (viz. completing BOTH of the GE Foundation courses	) on the condition	
that the PKU students would have taken course(s) relevant to Area A in Pl	U. The following	
is a list of pre-approved GE courses offered by PKU relevant to Area A.		
Designated courses offered by Recommendations from OUGE		
PKU		
2033530 Ancient Chinese The course can be considered as an	equivalent	
Culture course of UGEA2110 An Introduct	ion to Chinese	
A can be granted.	A linite in Aree	
3032360 History of Chinese The course can be considered as an	5 units in Area	
Culture course of UGEA2110 An Introduct	o units in Area	
<i>Culture</i> (3 units), and exemption o	equivalent ion to Chinese	
2131110 Politics and Culture in The course can be considered for e	equivalent ion to Chinese 3 units in Area	
Traditional China in Area A.	equivalent ion to Chinese a units in Area	
1339320The HistoricalThe course can be considered for e	equivalent ion to Chinese 3 units in Area xempting 3 units	
[h] Geography of China I in Area A.	equivalent ion to Chinese 3 units in Area xempting 3 units xempting 3 units	

Major Programme Requirement (for Associate Degree or Higher Diploma holders admitted to senior-year places)

Students are required to complete a minimum of 55 units of courses as follows:

# 11/4/2

1	0.26 AM			Browse	Program Inform
	0.207.111	CSCI1 ENGG	120/1130/ESTR1100/1102, 2780/ESTR2020	ENGG2760/ESTR2018,	
	2. (a)	Requir CSCI2 ECON	ed Courses: 100#/ESTR2102, CS 2011#, FTEC2101/EST	CI4130#/IERG4130#/ESTR4306, R2520, FTEC3001, 3002,	24
	(b)	SEEM: Resear	2520#, SEEM3550#/ESTR: ch Component Courses[a]:	3506	6
	(c)	FTEC4 Practic	1998, 4999 um Course:		1
	(d)	FTEC2 Legal ( FTEC2	2602 Course: 2001		2
	3. (a)	Electiv At lea FTEC4	e Courses: ast 6 units from FTE 007, 4008	C4003, FTEC4004/IERG4004#,	15
	(0)	ACCT CSCI3 CSCI4 CSCI4 ENGG FTEC4 IERG4 SEEM	s from at least 3 subject are 2111#, AIST4010#/EST1 150#/ESTR3102, CSC13 160#/ESTR4104, 430#/IERG3310#/ESTR331 1820, FINA2310#, 3020# 4001, 4002, 4005, 210#, MKTG4120#, SEEM 3570#/ESTR3508, SEEM 4720#/ESTR3508, SEEM	as[0] outside FTEC: R4140, CSCI2040#, 2120#, S160#/ESTR3104, CSCI3320#, CSCI4180#/ESTR4106, 10/ESTR4120, ECON2021#, ; 3030#, 3070#, 3210#, 4010#, 4006, IERG4080#/ESTR4312, 13410#, SEEM3450#/ESTR3502, 3580#, SEEM3590#/ESTR3509,	
		SEEM	4/30#/ESTR4308	Total:	55
	In additi themselv	on to fu ves by ta	Ifilling the above Major Pro king the following stream of	ogramme Requirement, students may a offered by the Faculty:	lso challenge
	ii) Explana	and at 1 3 units level[f] tory Not	least 6 units of courses at 30 of BMEG/CENG/CSCI/E	)00 or 4000 level[e] :LEG/ENGG/IERG/MAEG/SEEM cou	urses at 5000
	1.	ENGG will be	, ESTR and FTEC courses a included in the calculation	at 2000 and above level as well as those of Major GPA for honours classification	e labeled as # on, excluding
	[a]	Studen comple 6 units Stream	s in the Foundation Courses ts who have declared to spete 6 units of ESTR4998 and cannot be used to fulfill	pecialize in the ELITE Stream will b d 4999 to substitute for FTEC4998 and the Elective Courses requirement o	e required to 1 4999. These f the ELITE
	[b] [c]	ESTR Details the EL Non-E are rec ESTR	courses will be counted as t of the entrance and course ITE Stream can be found at LITE Engineering students juired to seek approval for courses taken to fulfill t	heir reciprocal departmental subject are ework requirements, and declaration p the ELITE website ( <u>www.erg.cuhk.edu</u> may be allowed to take ESTR cours om their respective Major Programm he Major Programme Requirement.	eas. rocedures for <u>u.hk/elite</u> ). ies. Students ies for using Details are
	[d]	Studen require Stream	ts can use up to 9 units ments of items 1 to 3 abov . Item 2(b) Research Cor A full list of ESTP courses	of courses which have been taken ve to fulfill the elective requirements of mponent Courses will not be include in qualiable at the ELITE website	to fulfill the of the ELITE ed in these 9
	[e]	Studen 5000 1	ts can use BMEG/CENG/C evel to substitute for EST	CSCI/ELEG/ENGG/IERG/MAEG/SEE TR courses at 3000 or 4000 level, s	M courses at ubject to the
	[f]	approv The re require of the l	al of the Stream Director an equirement of at least 3 ment for the ELITE Stream Major Programme.	In the Associate Dean (Education). units of Engineering courses at 500 a only. It should not be interpreted as a	00 level is a a requirement
			Recommended Course Higher Diploma holders	Pattern (for Associate Degree or admitted to senior-year places)	Units
F	irst Year ttendanc	of æ	1 <sup>st</sup> term Major Required: CSCI112 ECON2011, ENGG2760/I Major Elective:	20/1130/ESTR1100/1102, ESTR2018, SEEM2520	11
			2 <sup>nd</sup> term Major Required: CSCI210 ENGG2780/ESTR2020, F	00/ESTR2102, FTEC2001, FTEC2101/ESTR2520,	11

FTEC2602

1<sup>st</sup> term

Second Year of

Attendance

Major Elective(s): 1 course

Major Elective(s): 2 courses

Major Required: CSCI4130/IERG4130/ESTR4306, FTEC3001 or 3002, FTEC4998

 $https://cusis.cuhk.edu.hk/psp/CSPRD/EMPLOYEE/HRMS/c/SCC\_ADMIN\_OVRD\_STDNT.SAA\_SS\_DPR\_ADB.GBL?Folder=MYFAVORITES$ 

3

9 6

 Major Elective(s): 2 courses Total:	6 55
Major Required: FTEC3001 or 3002, FTEC4999, SEEM3550/ESTR3506	9
2 <sup>nd</sup> term	

Financial	Technology and Integrated BBA Programme Double Major Programme		
Major 1	Programme Requirement		
Student	s are required to complete a minimum of 90 units of courses as follows:	** •	
1.	Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006, MGNT1020	9	
2. (a)	Required Courses: 1 <sup>st</sup> Major: Financial Technology i) Foundation Courses: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a] ii) Required Courses: CSCI2100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306, DOTE[DSME]1030#, FINA2010#, FTEC2101/ESTR2520, FTEC3001[b], 3002, SEEM3550#/ESTR3506, SEEM3590# Ib//ESTR3509[b]	40	
(b)	2 <sup>nd</sup> Major: Integrated BBA Programme ACCT2111#, 2121, 2151#, DOTE[DSME]1040#, 2030#, FTEC4003[b], IBBA3040#, MGNT2611, 4010, MKTG2010#	26	
3. (a)	Elective Courses: <u>1<sup>st</sup> Major: Financial Technology</u> 3 units from the following: FTEC4001, 4002, FTEC4004/IERG4004#, FTEC4005, 4006, 4007, 4008	3	
(b)	<ul> <li>2<sup>nd</sup> Major: Integrated BBA Programme[b]</li> <li>i) 3 units of DOTE[DSME]/FINA/MGNT/MKTG courses at 2000 or above level, excluding DOTE[DSME]2011, 2051, 4220, FINA3080, 4110, MGNT2511, 2512 and courses taken for fulfilment of requirement (ii) below</li> <li>ii) One course from the following: FINA3020, 3030, 3070, 3210, 4010</li> </ul>	6	
4.	Research Component/ Capstone Course/ Final Year Project[c]: FTEC4998, 4999	6	
	Total:	90	
In addition to fulfilling the above Major Programme Requirement, students may also challenge themselves by taking the following stream offered by the Faculty of Engineering:			
Engineering Leadership, Innovation, Technology and Entrepreneurship (ELITE) Stream[d] Elective Courses: 15 units of courses[e]: i) 12 units of ESTR courses of which at most 6 units of courses at 1000 or 2000 level and ot least 6 units of courses at 2000 or 4000 level[6]			

ii) 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000 level[g]

Explanatory Notes:

- 1. ENGG, ESTR and FTEC courses at 2000 and above level as well as those labeled as # will be included in the calculation of Major GPA for honours classification, excluding courses in the Faculty Package and Foundation Courses.
- 2. Students are not allowed to declare Minor in Business.
- Students should have gone through a selection process in order to be admitted to this Double Major Programme.
- [a] i) Non-JUPAS admittees and JUPAS admittees with HKDSE Mathematics Extended Modules I or II are required to attend a Mathematics Placement Test of the Faculty of Engineering. Students who fail or are absent from the Placement Test will be required to take MATH1020 in the same term when they take MATH1510.
  - ii) JUPAS admittees without HKDSE Mathematics Extended Modules I or II are required to take MATH1020 concurrently with MATH1510.
  - iii) Students who fail MATH1510 in Term 1 will have to retake the course in Term2. The pre-assigned course, ENGG1130, will also be dropped.
- [b] Courses taken to fulfill the requirements of items 2(a)(ii), 2(b) and 3(b) will be used to fulfill the requirement of General Business Concentration of the Integrated BBA Programme.
- [c] Students who have declared to specialize in the ELITE Stream will be required to complete 6 units of ESTR4998 and 4999 to substitute for FTEC4998 and 4999. These 6 units cannot be used to fulfill the Elective Courses requirement of the ELITE Stream.
- [d] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (www.erg.cuhk.edu.hk/elite). Non-ELITE Engineering students may be allowed to take ESTR courses. Students are required to seek approval from their respective Major Programmes for using ESTR courses taken to fulfill the Major Programme Requirement. Details are available at the ELITE website.
- [e] Students can use up to 9 units of courses which have been taken to fulfill the

- ..... ۲۰۱ ۳r ocen miten requirements of items 1 to 3 above to fulfill the elective requirements of the ELITE Stream. Item 4 Research Component/ Capstone Course/ Final Year Project will not be included in these 9 units. A full list of ESTR courses is available at the ELITE website.
- Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at [f] 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approval of the Stream Director and the Associate Dean (Education) of the Faculty of Engineering.
- The requirement of at least 3 units of Engineering courses at 5000 level is a requirement [g] for the ELITE Stream only. It should not be interpreted as a requirement of the Double Major Programme. Subject area code "DSME" changed to "DOTE" with effect from 2024-25.
- []

	Recommended Course Pattern	Units
First Year of	1 <sup>st</sup> term	
Attendance	Faculty Package: MGNT1020	3
	Financial Technology Major Required: DOTE[DSME]1030.	6
	MATH1510	
	Major Elective(s):	
	2 <sup>nd</sup> term	
	Eaculty Package: ENGG1120/ESTR1005_ENGG1130/	6
	ESTR1006	0
	Integrated BBA Major Required: DOTE[DSME]1040.	4
	IBBA3040	
	Major Elective(s):	
Second Year of	1 <sup>st</sup> term	
Attendance	Financial Technology Major Required: CSCI1120/1130/	8
	ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/	
	ESTR2018	
	Integrated BBA Major Required: ACCT2111	3
	Major Elective(s):	
	2 <sup>nd</sup> term	
	Financial Technology Major Required: CSCI2100/	11
	ESTR2102, ENGG2780/ESTR2020, FINA2010,	
	FTEC2101/ ESTR2520	
	Integrated BBA Major Required: ACCT2121	3
	Major Elective(s):	
Third Year of	1 <sup>st</sup> term	
Attendance	Financial Technology Major Required: CSCI4130/	9
	IERG4130/ESTR4306, FTEC3001 or 3002, SEEM3590/	
	ESTR3509	
	Integrated BBA Major Required: ACCT2151,	5
	DOTE[DSME]2030	
	Major Elective(s):	
	2 <sup>nd</sup> term	
	Financial Technology Major Required: FTEC3001 or 3002,	6
	SEEM3550/ESTR3506	
	Integrated BBA Major Required: MKTG2010	3
	Financial Technology Major Elective(s): 1 course	3
Fourth Year of	1 <sup>st</sup> term	
Attendance	Major Required: FTEC4998	3
	Integrated BBA Major Required: MGNT2611	2
	Integrated BBA Major Elective(s): 1 course	3
	2 <sup>nd</sup> term	
	Major Required: FTEC4999	3
	Integrated BBA Major Required: FTEC4003, MGNT4010	6
	Integrated BBA Major Elective(s): 1 course	3
	Total (including Faculty Package):	90

Bachelor of Engineering (Financial Technology) and Bachelor of Business Administration (Integrated BBA Programme) Double Degree Option

<u>1st Degree: Bachelor of Engineering (Financial Technology)</u>				
Major Programme Requirement				
Student	s are required to complete a minimum of 75 units of courses as follows:	Luita		
1.	Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9		
2.	Foundation Courses: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a]	13		
3.	Required Courses:			
(a)	CSCI2100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306, ECON2011#, FINA2310#, FTEC2101/ESTR2520, FTEC3001, 3002, SEEM2520#, SEEM3550#/ESTR3506, SEEM3590#/ESTR3509	30		
(b)	Research Component Courses[b]: FTEC4998, 4999	6		



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second degree programme which has discretion to judge the suitability of the students for studying for the second degree programme through assessments like conducting interview, considering the recommendation from the first degree programme etc.

Upon fulfillment of the requirements of the first degree programme, students can still choose to or not to pursue the second degree programme. If a student decides not to pursue the second degree programme but has fulfilled the requirements of a relevant BBA minor programme. a minor of that BBA programme would be awarded.

2nd Degree: Bachelor of Business Administration (Integrated BBA Programme)					
Major Programme Requirement					
Students	are required to complete a minimum of 56 units of courses as follows:				
1.	Faculty Package: 9				
	DOTE[DSME]1050, 1040, MGN11020				
2.	Required Courses: 32-33 ACCT2111, 2121, 2151 or 3151[a], DOTE[DSME]2011, 2030, 2051, FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010, MKTG2010				
3.	Elective Courses (Concentration): 15-18 Students must choose at least one concentration and take five or six courses among the courses prescribed under respective concentration area as follows:				
(a)	Business Economics				
	<ul> <li>(i) DOTE[DSME]2021, 4110,</li> <li>(ii) two courses selected from: DOTE[DSME]3000, 3011, 3030, 3050, 3080, 4040, 4080; and</li> <li>(iii) are DOTE[DSME] course at 2000 or show level evaluating</li> </ul>				
(b)	the courses taken for fulfillment of requirement (i) or (ii) Business Analytics				
	<ul> <li>(i) DOTE[DSME]2021, 2040, 4020;</li> <li>(ii) one course selected from: DOTE[DSME]4070, 4240, 4260;</li> <li>and</li> </ul>				
	(iii) one course selected from: DOTE[DSME]3030, 4030, 4110, 4220, 4280, MKTG4120				
(c)	<ul> <li>Finance</li> <li>(i) DOTE[DSME]2021 or FINA2020; and</li> <li>(ii) 15 units of FINA courses at 3000 or above level, with no more than three 1 unit FINA courses</li> </ul>				
(d)	(i) MGNT1070, 2070, 3070, 4170; and (ii) LVD course calcoted from: MGNT3080, 4070, 4090, 4130				
()	4160, 4270, 4570, 4711, 4712, 4713				
(e)	<ul> <li>Management of International Business</li> <li>(i) MGNT3580, 4150; and</li> <li>(ii) four courses selected from: MGNT3010, 3080, 3100, 4080,</li> </ul>				
(f)	4090, 4110, 4130, 4140, 4510, 4530, 4540, 4550, 4570 Human Resource Management (i) MGNT2040, 3010; and (ii) MGNT2040, 3010; and				
(g)	(h) Four courses selected from MCN15040, 5000, 5050, 5100, 4050, 4060, 4080, 4110, 4130, 4140				
(g)	<ul> <li>MKTG3010, 3020, 3030, 4040; and</li> <li>(i) MKTG3010, 3020, 3030, 4040; and</li> <li>(ii) two courses selected from: MKTG3040, 3050, 4010, 4020, 4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200</li> </ul>				
(h)	Big Data and Quantitative Marketing           (i)         MKTG3010, 3060, 4080, 4090; and           (ii)         two courses selected from: MKTG3020, 4030, 4050, 4120				
(i)	(ii) 4150, 4160, 4170, 4180, 4190, 4200 General Business				
. /	(i) 3 units of DOTE[DSME]/FINA/MGNT/MKTG courses at 2000 or above level; and				
	<ul> <li>(ii) 12 units of DOTE[DSME]/FINA/MGNT/MKTG courses at 3000 or above level, excluding the courses taken for</li> </ul>				
	fulfillment of requirement (i), with no more than three 1-unit FINA courses				
Explana	tory Notes: Total: 56-60				
1.	ACCT/DOTE[DSME]/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in				
2.	the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not				
3.	allowed. DOTE[DSME]2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (a)				
	MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f).				
4.	Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to (h).				
5.	Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.				
[a]	ACCT2151 and ACCT3151 are mutually exclusive. Students who would like to pursue a career in accounting profession are advised to take ACCT3151 instead of ACCT2151.				
[]	Subject area code "DSME" changed to "DOTE" with effect from 2024-25.				
Explana 1	tory Notes on Mutual Recognition or Exclusion:				
1.	the second degree by successfully completing ENGG2450/ESTR2005 OP				

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- compressing Errodzador Errodzador OK successiuity ENGG2760/ESTR2018 and ENGG2780/ESTR2020. FINA2010 and the associated units can be exempted from the requirement of the 2. second degree by successfully completing FINA2310.
- DOTE[DSME]1030 and the associated units can be exempted from the requirement of the second degree by successfully completing ECON2011. 3.

Recommended	Course Pattern	TT. 1		II. 9
	1 <sup>st</sup> degree: Bachelor of	Units	2 <sup>nd</sup> degree: Bachelor of	Units
	Engineering (Financial		Business Administration	
F. 4 X C	Technology)		(Integrated BBA Programme)	
First Year of Attendance	1 <sup>st</sup> term Faculty Package: Major Required: FINA2310, MATH1510 Major Elective(s):	6	1 <sup>st</sup> term Faculty Package: Major Required: Major Elective(s):	
	2 <sup>nd</sup> term Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9	2 <sup>nd</sup> term Faculty Package: Major Required: Major Elective(s):	
	Major Required: ECON2011 Major Elective(s):	3		
Second Year of Attendance	1 <sup>st</sup> term Major Required: CSCI1120/ 1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018 Major Elective(s):	8	1 <sup>st</sup> term Faculty Package: DOTE[DSME]1030 Major Required: Major Elective(s):	3
	2 <sup>nd</sup> term Major Required: CSCI2100/ESTR2102, ENGG2780/ESTR2020, FTEC2001, FTEC2101/ESTR2520, FTEC2602 Major Elective(s):	11	2 <sup>nd</sup> term Faculty Package: DOTE[DSME]1040, MGNT1020 Major Required: Major Elective(s):	6
Third Year of Attendance	1 <sup>st</sup> term Major Required: CSCI4130/ IERG4130/ESTR4306, FTEC3001 or 3002, SEEM2520, SEEM3590/ESTR3509 Major Elective(s):	12	1 <sup>st</sup> term Major Required: DOTE[DSME]2011 Major Elective(s):	4
	2 <sup>nd</sup> term Major Required: FTEC3001 or 3002, SEEM3550/ESTR3506 Major Elective(s): 1 course	6	2 <sup>nd</sup> term Major Required: FINA2010 Major Elective(s):	3
Fourth Year of Attendance	1 <sup>st</sup> term Major Required: FTEC4998 Major Elective(s): 2 courses	3	1 <sup>st</sup> term Major Required: ACCT2111, MGNT2512, 2611 Major Elective(s):	6
	2 <sup>nd</sup> term Major Required: FTEC4999 Major Elective(s): 2 courses	3 5	2 <sup>nd</sup> term Major Required: ACCT2121, MKTG2010, MGNT2511	7
	,		Major Elective(s): 1 course	3
Fifth Year of Attendance			1 <sup>st</sup> term Major Required: ACCT2151 or 3151, DOTE[DSME]2030, IBBA3040 Major Elective(s): 3 courses	6-7 9
			2 <sup>nd</sup> term Major Required: MGNT4010, DOTE[DSME]2051	6
	Total (including Faculty Package):	75	Total (including Faculty Package):	3-6 56-60

Course List						
Course Code	Course Title	Unit(s)				
ENGG1820	Engineering Internship	1				
ENGG2440	Discrete Mathematics for Engineers	3				
ENGG2760	Probability for Engineers	2				
ENGG2780	Statistics for Engineers	2				
ESTR2004	Discrete Mathematics for Engineers	3				
ESTR2018	Probability for Engineers	2				
ECTDAMA	04-41-41-4 £- 11 ₽-11-11-11-11-11-11-11-11-11-11-11-11-11	<b></b>				

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FTEC2001	FinTech Regulation and Legal Policy	2
FTEC2101	Optimization Methods	3
FTEC2602	Financial Technology Practicum	1
FTEC3001	Financial Innovation and Structured Products	3
FTEC3002	Introduction to Financial Infrastructures	3
FTEC4001	Advanced Database Technologies	3
FTEC4002	Behavioral Analytics	3
FTEC4003	Data Mining for FinTech	3
FTEC4004	E-payment Systems and Cryptocurrency Technologies	3
FTEC4005	Financial Informatics	3
FTEC4006	Internet Finance	3
FTEC4007	Introduction to Blockchain and Distributed Ledger	3
	Technology	
FTEC4008	Natural Language Processing for FinTech	3
FTEC4998	Final Year Project I	3
FTEC4999	Final Year Project II	3

## Study Scheme Learning Outcomes

## Learning Outcomes

## 1. Major Programme:

Upon completion of their studies, FinTech students will have developed:

- the ability to apply knowledge of mathematics, science, and engineering appropriate to the degree discipline (K/S);
- (2) the ability to design and conduct experiments, as well as to analyze and interpret data (K/S);
   (3) the ability to design a system, component, or process to meet desired needs within realistic
- constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability (K/S);
- (4) the ability to function in multi-disciplinary teams (S/V);
- (5) the ability to identify, formulate, and solve engineering problems (K/S);
- (6) the understanding of professional and ethical responsibility (V);
- (7) the ability to communicate effectively (S);
- (8) the ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public (V);
- (9) the ability to stay abreast of contemporary issues (S/V);
- (10) the ability to recognize the need for, and to engage in life-long learning (V);
- (11) the ability to use the techniques, skills, and modern engineering tools necessary for engineering practice appropriate to the degree discipline (K/S);
- (12) the ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes and limitations (K/S/V); and
- (13) the ability to apply the skills relevant to the discipline of financial technology in financial innovations, especially in the areas of payment systems, investment decisions and financial product developments, financial big data analytics, internet finance, and cyber and data security (K/S).

#### 2. Financial Technology and Integrated BBA Programme Double Major Programme:

Upon completion of the programme, students should:

- (1) have effective business communication skills (S).
- (2) be able to apply knowledge of mathematics, science, and engineering and problem-solving skills that support them to make business decisions (K/S).
- (3) have the ability to design and conduct experiments, as well as to analyze and interpret data (K/S).
- (4) have the ability to design a system, component, or process to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability (K/S).
- (5) have the ability to integrate business knowledge in a business environment (K/S/V).
- (6) have the ability to propose strategies in a global environment (K/S/V).
- (7) have the ability to be aware of the ethical issues in a business context (V).
- (8) have the ability to function in multi-disciplinary teams (S/V).
- (9) have the ability to identify, formulate, and solve engineering problems in a business context (K/S).
- (10) have the ability to understand the impact of engineering solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public (V).
- (11) have the ability to stay abreast of contemporary issues (S/V).
- (12) have the ability to recognize the need for, and to engage in life-long learning (V).
- (13) have the ability to use the techniques, skills, and modern engineering tools necessary for engineering and business practice appropriate to the degree discipline (K/S).
- (14) have the ability to use the computer/IT tools relevant to the discipline along with an understanding of their processes and limitations (K/S/V).
- (15) have the ability to apply the skills relevant to the discipline of financial technology in financial innovations, especially in the areas of payment systems, investment decisions and financial product developments, financial big data analytics, internet finance, and cyber and data security (K/S).

K = Knowledge outcomes S = Skills outcomes V = Values and attitudes outcomes

Course Information

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