Program Information

Data Language: English

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Academic Program:	(334 new curriculum) B.Eng. in Financial Technology
Academic Year:	2022

Select Language: English

Study Scheme Learning Outcomes

Study Scheme

Financial Technology Applicable to students admitted in 2022-23

Major	Programme Requirement	
Student	as are required to complete a minimum of 75 units of courses as follows:	
		Units
1.	Faculty Package:	9
	ENGG1110/ESTR1002, ENGG1120/ESTR1005,	
	ENGG1130/ESTR1006	
2.	Foundation Courses:	13
	CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004,	
	ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a]	
3.	Required Courses:	2.0
(a)	CSCI2100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306,	30
	ECON2011#, FINA2310#, FTEC2101/ESTR2520, FTEC3001, 3002, SEEM2520#, SEEM3550#/ESTR3506, SEEM3590#/ESTR3509	
(b)	Research Component Courses[b]:	6
(-)	FTEC4998, 4999	-
(c)	Practicum Course:	1
	FTEC2602	
(d)	Legal Course:	2
	FTEC2001	
4.	Elective Courses:	14
(a)	At least 6 units from FTEC4001, 4002, 4003,	
. /	FTEC4004/IERG4004#, FTEC4005, 4006, 4007	
(b)	Courses from at least 3 subject areas[c]:	
	ACCT2111#, AIST4010#/ESTR4140, CSCI2040#, 2120#,	
	CSCI3150#/ESTR3102, CSCI3160#/ESTR3104, CSCI3320#, CSCI4160#/ESTR4104, CSCI4180#/ESTR4106,	
	CSCI4180#/ESTR4104, CSCI4180#/ESTR4100, CSCI4430#/ESTR4100, CSCI4430#/IERG3310#/ESTR3310/ESTR4120, ECON2021#[d],	
	ENGG1820, FINA3020#, 3030#, 3070#, 3210#, 4010#,	
	IERG4080#/ESTR4312, IERG4210#, MKTG4120#, SEEM3410#,	
	SEEM3450#/ESTR3502, SEEM3570#/ESTR3508, SEEM3580#,	
	SEEM4730#/ESTR4508 Total:	75
In addi	tion to fulfilling the above Major Programme Requirement, students may lves by taking the following stream offered by the Faculty:	also challenge
ulemse	ives by taking the following stream offered by the fractity.	
Engine	ering Leadership, Innovation, Technology and Entrepreneurship (ELIT	[E] Stream[e]
	e Courses:	, LJ
	s of courses[f]:	
i)	12 units of ESTR courses of which at most 6 units of courses at 1000 or	2000 level and
ii)	at least 6 units of courses at 3000 or 4000 level[g] 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM co	ourses at 5000
11)	level[h]	5015 0 5 01 5000
-	atory Notes:	
1.	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 classification of the Feynman in the Feynman and Feynmatic Courses	ation, excluding
[a]	courses in the Faculty Package and Foundation Courses.i) Non-JUPAS admittees and JUPAS admittees with HKDSF	Mathematics
լսյ	Extended Modules I or II are required to attend a Mathematics F	
	Students who fail or are absent from the Placement Test will be	
	MATH1020 in the same term when they take MATH1510.	-
	ii) JUPAS admittees without HKDSE Mathematics Extended Mod	ules I or II are
	required to take MATH1020 concurrently with MATH1510.	·
	iii) Students who fail MATH1510 in Term 1 will have to retake the co The pre-assigned course, ENGG1130, will also be dropped.	urse in Term 2.
[b]	Students who have declared to specialize in the ELITE Stream will	be required to
٢~٦	complete 6 units of ESTR4998 and 4999 to substitute for FTEC4998 and	
	units cannot be used to fulfill the Elective Courses requirement of the EL	
[c]	ESTR courses will be counted as their reciprocal departmental subject are	eas.

- [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 DSME1040 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 (<u>www.erg.cuhk.edu.hk/elite</u>). 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.

	Recommended Course Pattern	Units
First Year of Attendance	1 st term Faculty Package:	
	Major Required: FINA2310, MATH1510 Major Elective(s):	6
	2 nd term Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006	9
	Major Required: ECON2011 Major Elective(s):	3
Second Year of Attendance	1 st term Major Required: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, SEEM2520 Major Elective(s):	11
	2 nd term Major Required: CSCI2100/ESTR2102, ENGG2780/ESTR2020, FTEC2001, FTEC2101/ESTR2520, FTEC2602 Major Elective(s):	11
Third Year of Attendance	1 st term Major Required: CSCI4130/IERG4130/ESTR4306, FTEC3001 or 3002, SEEM3590/ESTR3509 Major Elective(s):	9
	2 nd term Major Required: FTEC3001 or 3002, SEEM3550/ESTR3506 Major Elective(s): 1 course	6 3
Fourth Year of Attendance	1 st term Major Required: FTEC4998 Major Elective(s): 2 courses	3 6
	2 nd term Major Required: FTEC4999 Major Elective(s): 2 courses	3 5
	Total (including Faculty Package):	75
	Recommended Course Pattern for CUHK students in fulfillment of requirements of the DDP with Peking University (PKU) (BSc in Financial Mathematics)	Units

First Year of	Faculty Package: 2 courses		At least 32 units
Attendance	Major Required: MATH1510		including
(Study at PKU)	University Core: 2 PHED courses		courses to be
Second Year of	Faculty Package: 1 course	transferred to	
Attendance	Major Required: CSCI2100/ESTR2102, ECO	N2011,	CUHK[a]
(Study at PKU)	ENGG2760/ESTR2018, FINA2310, SEEM2520		
(University Core: 2 University GE courses of 4		
	A and C)[b]		
Third Year of	1 st term[c]		
Attendance	Major Required: CSCI1120/1130/ESTR1100/1	102,	9
(Study at	CSCI4130/IERG4130/ESTR4306[d], ENGG2		
CUHK)	University Core: CHLT1001, ELTU1001 or 10	002, ENGG1004	9
	2 nd term		
	Major Required: ENGG2780/ESTR2020, FTE	C2001[d],	14
	FTEC2101/ESTR2520[f], FTEC2602, FTEC3	001 or 3002[d],	
	SEEM3550/ESTR3506[d]		
	University Core: CHLT1002, 0-1 College GE		4
	2 courses from Understanding China and Hong	g Kong in the	
	Wider Constitutional Order		
	Summer Session		2
Fourth Year of	University Core: 1 UGFH/UGFN course[d]		3
Attendance	1 st term		0
(Study at	Major Required: FTEC3001 or 3002[d], FTEC SEEM3590/ESTR3509	24998[h],	9
CUHK)	Major Elective(s): 1 course[e]		3
<i>cciiii)</i>	University Core: ELTU3xxx, 1 College GE co	urse[d][g] 0-2	5-6
courses from Understanding China and Hong Kong in the		5-0	
	Wider Constitutional Order		
	2 nd term		
	Major Required: FTEC4999[h]		3
	Major Elective(s): 4 courses[e]		12
	University Core: 1 UGFH/UGFN course[d]		3
		aken at CUHK:	74-75
	Units taken at PKU and recogn		32
		Total:	106-107[e][i]
[a] Mutual recognition of courses: CUHK requirement to be fulfilled by PKU courses			
CUHK Courses PKU Courses			
ENGG1110 Problem Solving by Programming Intro to Compu			
ENGG1120 Linear Algebra for Engineers Advanced Alge			
ENGG1130 Multivariable Calculus for Engineers Mathematical A			
	ENGG2760 Probability for Engineers Probability The		
	MATH1510 Calculus for Engineers Mathematical A		
	CSCI2100 Data Structures Data Structures		
ECON20	ECON2011 Basic Microeconomics Microeconomic		
	FINA2310 Fundamentals of Business Finance Corporate Finance		nce
SEEM25	520 Fundamental in Financial Engineering	Introduction to	Financial Math
[b] CUHK st	520 Fundamental in Financial Engineering udents can take the following General Educat	Introduction to ion Courses offe	Financial Math red by PKU and
[b] SEEM25 CUHK st transfer t	520 Fundamental in Financial Engineering	Introduction to ion Courses offe of University Go	Financial Math red by PKU and eneral Educatior

Requirements of CUHK in Areas A and C. Students should complete the minimum units of courses at CUHK before graduation and may refer to the General Regulations Governing Full-time Undergraduate Studies for details.

Designated courses offered by PKU		Recommendations from OUGE	
2033530	Ancient Chinese Culture	The course can be considered as an equivalent course of UGEA2110 <i>An Introduction to Chinese Culture</i> (3 units), and exemption of 3 units in Area A can be granted.	
3032360	History of Chinese Culture	The course can be considered as an equivalent course of UGEA2110 <i>An Introduction to Chinese Culture</i> (3 units), and exemption of 3 units in Area A can be granted.	
2131110	Politics and Culture in Traditional China	The course can be considered for exempting 3 units in Area A.	
1339320	The Historical Geography of China	The course can be considered for exempting 3 units in Area A.	

2431560	American Culture and	The course can be considered for exempting 3 units
	Society	in Area C.
3130280	Gender Studies	The course can be considered for exempting 3 units in Area C. Due to significant overlapping in course content with UGEC1209 <i>Thinking Gender: An Introduction</i> <i>to Women's and Gender Studies</i> , course restriction of UGEC1209 shall apply.
1339180	Global Cultural Geography	The course can be considered for exempting 3 units in Area C.
1831990	Inter-cultural Communication	The course can be considered for exempting 3 units in Area C.

[c] Students taking a term load exceeding the maximum will need to seek approval from the Registrar.

 [d] 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/ESTR2520 Optimization Methods taken at CUHK can be transferred to fulfill 3 units of Major Core Course of the requirements of the Bachelor of Science in Financial Mathematics at PKU.

[g] The recommended course pattern of College GE courses varies slightly depending on students' College affiliation.

[h] 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 Mathematics at PKU.

[i] Students are required to complete at least 50 units of Major courses at CUHK.

	Recommended Course Pattern for PKU students in fulfillment of requirements of the DDP with CUHK (BEng in Financial Technology)	Units
First Year of	Faculty Package: 2 courses	At least 27
Attendance	Major Required: MATH1510	units including
(Study at PKU)	University Core: 1 PHED courses	courses to be
Second Year of	Faculty Package: 1 course	transferred to
Attendance (Study at PKU)	Major Required: CSCI2100/ESTR2102, ECON2011, ENGG2760/ESTR2018, FINA2310, SEEM2520	CUHK[a]
Third Year of Attendance	1 st term Major Required: CSCI1120/1130/ESTR1100/1102,	9
(Study at CUHK)	CSCI4130/IERG4130/ESTR4306[b], ENGG2440/ESTR2004 Major Elective(s): 2 courses[c]	6
	2 nd term Major Required: ENGG2780/ESTR2020, FTEC2001[b], FTEC2101/ESTR2520[d], FTEC2602, FTEC3001 or 3002[b], SEEM3550/ESTR3506[b]	14
	University Core: 1 UGFH/UGFN course[b]	3
Fourth Year of Attendance (Study at	1 st term Major Required: FTEC3001 or 3002[b], FTEC4998[e], SEEM3590/ESTR3509	9
CUHK)	University Core: ELTU3xxx, 1 College GE course[b][f], Understanding China or Hong Kong in the Wider Constitutional Order	5-6
	2 nd term	
	Major Required: FTEC4999[e]	3
	Major Elective(s): 3 courses[c]	9
	University Core: 1 University GE (Area A) course[b][g], Understanding China or Hong Kong in the Wider Constitutional Order	3
	Units taken at CUHK:	61-62
	Units taken at PKU and recognized by CUHK:	27
	Total:	88-89 [h]

[h]

CUHK Cours	ses	PKU Courses
ENGG1110	Problem Solving by Programming	Intro to Computing
ENGG1120	Linear Algebra for Engineers	Advanced Algebra I, II
ENGG1130	Multivariable Calculus for Engineers	Mathematical Analysis III
ENGG2760	Probability for Engineers	Probability Theory
MATH1510	Calculus for Engineers	Mathematical Analysis I, II
CSCI2100	Data Structures	Data Structures
ECON2011	Basic Microeconomics	Microeconomics
FINA2310	Fundamentals of Business Finance	Corporate Finance
SEEM2520	Fundamental in Financial Engineering	Introduction to Financial Math

[b] 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.

[c] 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 91 to 92 units (instead of 88 to 89 units) at CUHK.

- [d] FTEC2101/ESTR2520 Optimization Methods taken at CUHK can be transferred to fulfill 3 units of Major Core Course of the requirements of the Bachelor of Science in Financial Mathematics at PKU.
- [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 Mathematics at PKU.
- [f] The recommended course pattern of College GE courses varies slightly depending on students' College affiliation.
- [g] The 2 units of University GE Area A course can be replaced by an additional GE 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 PKU. The following is a list of pre-approved GE courses offered by PKU relevant to Area A.

Designated PKU	d courses offered by	Recommendations from OUGE
2033530	Ancient Chinese Culture	The course can be considered as an equivalent course of UGEA2110 <i>An Introduction to Chinese</i> <i>Culture</i> (3 units), and exemption of 3 units in Area A can be granted.
3032360	History of Chinese Culture	The course can be considered as an equivalent course of UGEA2110 <i>An Introduction to Chinese</i> <i>Culture</i> (3 units), and exemption of 3 units in Area A can be granted.
2131110	Politics and Culture in Traditional China	The course can be considered for exempting 3 units in Area A.
1339320	The Historical Geography of China	The course can be considered for exempting 3 units in Area A.

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:		
1.	Foundation Courses: CSCI1120/1130/ESTR1100/1102, ENGG2760/ESTR2018, ENGG2780/ESTR2020	Units 7
2.	Required Courses:	
(a)	CSCI2100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306, ECON2011#, FTEC2101/ESTR2520, FTEC3001, 3002, SEEM2520#, SEEM3550#/ESTR3506	24
(b)	Research Component Courses[a]: FTEC4998, 4999	6
(c)	Practicum Course: FTEC2602	1
(d)	Legal Course: FTEC2001	2
3.	Elective Courses:	15

ACCT2111#, CSCI3150#/E CSCI4160#/E CSCI4160#/E CSCI4430#/I ENGG1820, FTEC4001, 4 MKTG4120# SEEM3570#/ SEEM4730#/ In addition to fulfilling themselves by taking th Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of Es at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	ESTR3102, CSCI3160#/ESTR3104, CSCI3320#, ESTR4104, CSCI4180#/ESTR4106, ERG3310#/ESTR3310/ESTR4120, ECON2021#, FINA2310#, 3020#, 3030#, 3070#, 3210#, 4010#, 002, 4005, 4006, IERG4080#/ESTR4312, IERG4210#, 5, SEEM3410#, SEEM3450#/ESTR3502, ESTR3508, SEEM3580#, SEEM3590#/ESTR3509,
CSCI4160#/F CSCI4430#/I ENGG1820, FTEC4001, 4 MKTG4120# SEEM3570#/ SEEM4730#/ In addition to fulfilling themselves by taking th Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of Es at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	ESTR4104, CSCI4180#/ESTR4106, ERG3310#/ESTR3310/ESTR4120, ECON2021#, FINA2310#, 3020#, 3030#, 3070#, 3210#, 4010#, 002, 4005, 4006, IERG4080#/ESTR4312, IERG4210#, .002, 4005, 4006, IERG4080#/ESTR4312, IERG4210#,
CSCI4430#/I ENGG1820, FTEC4001, 4 MKTG4120# SEEM3570#/ SEEM4730#/ In addition to fulfilling themselves by taking th Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of Es at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	ERG3310#/ESTR3310/ESTR4120, ECON2021#, FINA2310#, 3020#, 3030#, 3070#, 3210#, 4010#, 002, 4005, 4006, IERG4080#/ESTR4312, IERG4210#, , SEEM3410#, SEEM3450#/ESTR3502, ESTR3508, SEEM3580#, SEEM3590#/ESTR3509, ESTR4508 Total: 55 g the above Major Programme Requirement, students may also challenge the following stream offered by the Faculty: rship, Innovation, Technology and Entrepreneurship (ELITE) STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
ENGG1820, FTEC4001, 4 MKTG4120# SEEM3570#/ SEEM4730#/ In addition to fulfilling themselves by taking th Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of Es at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	FINA2310#, 3020#, 3030#, 3070#, 3210#, 4010#, 002, 4005, 4006, IERG4080#/ESTR4312, IERG4210#, SEEM3410#, SEEM3450#/ESTR3502, ESTR3508, SEEM3580#, SEEM3590#/ESTR3509, ESTR4508 Total: 55 g the above Major Programme Requirement, students may also challenge the following stream offered by the Faculty: ship, Innovation, Technology and Entrepreneurship (ELITE) STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
FTEC4001, 4 MKTG4120# SEEM3570#/ SEEM4730#/ In addition to fulfilling themselves by taking the Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of Est at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE 1 required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	002, 4005, 4006, IERG4080#/ESTR4312, IERG4210#, , SEEM3410#, SEEM3450#/ESTR3502, ESTR3508, SEEM3580#, SEEM3590#/ESTR3509, ESTR4508 Total: 55 g the above Major Programme Requirement, students may also challenge he following stream offered by the Faculty: rship, Innovation, Technology and Entrepreneurship (ELITE) STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
MKTG4120# SEEM3570#/ SEEM4730#/ In addition to fulfilling themselves by taking the Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of Est at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE 1 required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	SEEM3410#, SEEM3450#/ESTR3502, ESTR3508, SEEM3580#, SEEM3590#/ESTR3509, ESTR4508 Total: 55 g the above Major Programme Requirement, students may also challenge he following stream offered by the Faculty: rship, Innovation, Technology and Entrepreneurship (ELITE) STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
SEEM3570#/ SEEM4730#/ In addition to fulfilling themselves by taking the Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of Est at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	ESTR3508, SEEM3580#, SEEM3590#/ESTR3509, ESTR4508 Total: 55 g the above Major Programme Requirement, students may also challenge he following stream offered by the Faculty: Tship, Innovation, Technology and Entrepreneurship (ELITE) STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
SEEM4730#/ In addition to fulfilling themselves by taking the Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of Est at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	ESTR4508 Total: 55 g the above Major Programme Requirement, students may also challenge he following stream offered by the Faculty: The faculty: The faculty of the fa
In addition to fulfilling themselves by taking themselves by taking themselves by taking the Engineering Leader Stream [c] Elective Courses: 15 units of courses[d]: i) 12 units of Est at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE 1 required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	Total: 55 g the above Major Programme Requirement, students may also challenge he following stream offered by the Faculty: students may also challenge he following stream offered by the Faculty: rship, Innovation, Technology and Entrepreneurship (ELITE) STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
themselves by taking themselves by taking themselves by taking the second stream [c] Elective Courses: 15 units of courses[d]: i) 12 units of ES at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTH will be include courses in the [a] Students whe complete 6 units canno [b] ESTR courses [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	he following stream offered by the Faculty: ship, Innovation, Technology and Entrepreneurship (ELITE) STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
Engineering Leader Stream[c] Elective Courses: 15 units of courses[d]: i) 12 units of ES at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTH will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	ship, Innovation, Technology and Entrepreneurship (ELITE) STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
Stream[c]Elective Courses:15 units of courses[d]:i)12 units of Esat least 6 unitii)3 units of Blevel[f]Explanatory Notes:1.ENGG, ESTIwill be includcourses in the[a]Students whocomplete 6 units canno[b]ESTR course[c]Details of thethe ELITE StNon-ELITE Irequired to scourses takenELITE websi[d]Students canrequirementsStream. ItemA full list of I	STR courses of which at most 6 units of courses at 1000 or 2000 level and s of courses at 3000 or 4000 level[e]
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 15 units of courses[d]: i) i2 units of E3 at least 6 unit ii) ii) iii) iiii) iiiiiiiiii iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	s of courses at 3000 or 4000 level[e]
 i) 12 units of Es at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 units canno [b] ESTR course [c] Details of the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I 	s of courses at 3000 or 4000 level[e]
at least 6 unit ii) 3 units of B level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	s of courses at 3000 or 4000 level[e]
 ii) 3 units of B level[f] Explanatory Notes: ENGG, ESTI Will be includ courses in the Students who Complete 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I 	
level[f] Explanatory Notes: 1. ENGG, ESTI will be includ courses in the [a] Students who complete 6 u 6 units canno [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	MEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at 5000
 ENGG, ESTI will be includ courses in the Students who complete 6 ur 6 units canno ESTR course Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi Students can requirements Stream. Item A full list of I 	
 ENGG, ESTI will be includ courses in the all Students who complete 6 urits canno ESTR course Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi Students can requirements Stream. Item A full list of I 	
 courses in the [a] Students who complete 6 ui 6 units canno [b] ESTR course [c] Details of the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I 	R and FTEC courses at 2000 and above level as well as those labeled as #
 [a] Students who complete 6 us 6 units canno [b] ESTR course [c] Details of the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I 	led in the calculation of Major GPA for honours classification, excluding
 complete 6 u: 6 units canno ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I 	Foundation Courses.
 6 units canno [b] ESTR course [c] Details of the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I 	have declared to specialize in the ELITE Stream will be required to
 [b] ESTR course [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I 	nits of ESTR4998 and 4999 to substitute for FTEC4998 and 4999. These
 [c] Details of the the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I 	t be used to fulfill the Elective Courses requirement of the ELITE Stream.
the ELITE St Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	s will be counted as their reciprocal departmental subject areas. e entrance and coursework requirements, and declaration procedures for
Non-ELITE I required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	ream can be found at the ELITE website (<u>www.erg.cuhk.edu.hk/elite</u>).
required to s courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	Engineering students may be allowed to take ESTR courses. Students are
courses taken ELITE websi [d] Students can requirements Stream. Item A full list of I	eek approval from their respective Major Programmes for using ESTR
[d] Students can requirements Stream. Item A full list of I	to fulfill the Major Programme Requirement. Details are available at the
requirements Stream. Item A full list of I	te.
Stream. Item A full list of I	use up to 9 units of courses which have been taken to fulfill the
A full list of I	of items 1 to 3 above to fulfill the elective requirements of the ELITE
	2(b) Research Component Courses will not be included in these 9 units.
[e] Students can	ESTR courses is available at the ELITE website.
	use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses at
	substitute for ESTR courses at 3000 or 4000 level, subject to the approval
	Integration and the Associate Llean (Holicetton)
	Director and the Associate Dean (Education).
of the Major	nent of at least 3 units of Engineering courses at 5000 level is a
	nent of at least 3 units of Engineering courses at 5000 level is a for the ELITE Stream only. It should not be interpreted as a requirement

	Recommended Course Pattern (for Associate Degree or Higher Diploma holders admitted to senior-year places)	Units
First Year of Attendance	1 st term Major Required: CSCI1120/1130/ESTR1100/1102, ECON2011, ENGG2760/ESTR2018, SEEM2520 Major Elective:	11
	2 nd term Major Required: CSCI2100/ESTR2102, ENGG2780/ESTR2020, FTEC2001, FTEC2101/ESTR2520, FTEC2602	11
	Major Elective(s): 1 course	3

https://cusis.cuhk.edu.hk/psp/CSPRD/EMPLOYEE/HRMS/c/CU_CUR_MENU.CU_ATCH_DISPLAY.GBL?PORTALPARAM_PTCNAV=CU_ATCH... 7/17

Second Year of Attendance	1 st term Major Required: CSCI4130/IERG4130/ESTR4306, FTEC3001 or 3002, FTEC4998	9
	Major Elective(s): 2 courses	6
	2 nd term Major Required: FTEC3001 or 3002, FTEC4999, SEEM3550/ESTR3506	9
	Major Elective(s): 2 courses	6
	Total:	55

Majo	r Programme Requirement	
Studer	nts are required to complete a minimum of 90 units of courses as follows:	Units
1.	Faculty Package: ENGG1120/ESTR1005, ENGG1130/ESTR1006, MGNT1020	9
2.	Required Courses:	
(a)	1 st Major: Financial Technologyi)Foundation Courses: CSCI1120/1130/ESTR1100/1102,ENGG2440/ESTR2004,	40
	 ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a] Required Courses: CSCI2100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306, 	
(b)	DSME1030#, FINA2010#, FTEC2101/ESTR2520, FTEC3001[b], 3002, SEEM3550#/ESTR3506, SEEM3590#[b]/ESTR3509[b]	26
(0)	2 nd Major: Integrated BBA Programme ACCT2111#, 2121, 2151#, DSME1040#, 2030#, FTEC4003[b], IBBA3040#, MGNT2611, 4010, MKTG2010#	20
3.	Elective Courses:	
(a)	<u>1st Major: Financial Technology</u> 3 units from the following: FTEC4001, 4002, FTEC4004/IERG4004#, FTEC4005, 4006, 4007	3
(b)	 2nd Major: Integrated BBA Programme[b] i) 3 units of DSME/FINA/MGNT/MKTG courses at 2000 or above level, excluding DSME2011, 2051, 4220, FINA3080, 4110, MGNT2511, 2512 and courses taken for fulfilment of requirement (ii) below 	6
	ii) One course from the following: FINA3020, 3030, 3070, 3210, 4010	
4.	Research Component/ Capstone Course/ Final Year Project[c]: FTEC4998, 4999	6
	Total:	90
	lition to fulfilling the above Major Programme Requirement, students may also elves by taking the following stream offered by the Faculty of Engineering:	so challen
Electi	eering Leadership, Innovation, Technology and Entrepreneurship (ELITE) & ve Courses:	S tream [d]
15 uni i)	ts of courses[e]: 12 units of ESTR courses of which at most 6 units of courses at 1000 or 20	00 level a
ii)	at least 6 units of courses at 3000 or 4000 level[f] 3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses	
	level[g]	
Explan 1.	natory Notes: ENGG, ESTR and FTEC courses at 2000 and above level as well as those will be included in the calculation of Major GPA for honours classification	
2.	courses in the Faculty Package and Foundation Courses. Students are not allowed to declare Minor in Business.	
3.	Students are not anowed to declate while in Busiless. Students should have gone through a selection process in order to be adm Double Major Programme.	nitted to th
[a]	i) Non-JUPAS admittees and JUPAS admittees with HKDSE 1	Mathemati

	 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 wher 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 Term
	2. 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 (<u>www.erg.cuhk.edu.hk/elite</u>). 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 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.
[f]	Students can use BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM courses a 5000 level to substitute for ESTR courses at 3000 or 4000 level, subject to the approva of the Stream Director and the Associate Dean (Education) of the Faculty o Engineering.

[g] Engineering.
 [g] 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 Double Major Programme.

	Recommended Course Pattern	Units
First Year of	1 st term	
Attendance	Faculty Package: MGNT1020	3
	Financial Technology Major Required: DSME1030,	6
	MATH1510	
	Major Elective(s):	
	2 nd term	
	Faculty Package: ENGG1120/ESTR1005, ENGG1130/	6
	ESTR1006	
	Integrated BBA Major Required: DSME1040, IBBA3040	4
	Major Elective(s):	
Second Year of	1 st 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 nd 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 st term	
Attendance	Financial Technology Major Required: CSCI4130/	9
	IERG4130/ESTR4306, FTEC3001 or 3002, SEEM3590/	
	ESTR3509	
	Integrated BBA Major Required: ACCT2151, DSME2030	5
	Major Elective(s):	U
	2 nd term	
	Financial Technology Major Required: FTEC3001 or 3002,	6
	SEEM3550/ESTR3506	0
	Integrated BBA Major Required: MKTG2010	3
	Financial Technology Major Elective(s): 1 course	3
Fourth Year of	1 st term	5
Attendance	Major Required: FTEC4998	2
	Integrated BBA Major Required: MGNT2611	3 2
	megrateu DDA Wajor Requireu: WOW12011	2

	Integrated BBA Major Elective(s): 1 course 2 nd term	3
	Major Required: FTEC4999	3
	Integrated BBA Major Required: FTEC4003, MGNT4010	6
	Integrated BBA Major Elective(s): 1 course Total (including Faculty Package):	3 90
	Total (including Faculty Fackage).	20
	r of Engineering (Financial Technology) and Bachelor of Business A ed BBA Programme) Double Degree Option	dministration
1 at Dag	man Dashalan of Engineering (Financial Tashualaga)	
<u>Ist Deg</u>	<u>gree: Bachelor of Engineering (Financial Technology)</u>	
Major	Programme Requirement	
Student	as are required to complete a minimum of 75 units of courses as follows:	TT 14
1.	Faculty Package:	Units 9
	ENGG1110/ESTR1002, ENGG1120/ESTR1005,	-
	ENGG1130/ESTR1006	
•		10
2.	Foundation Courses: CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004,	13
	CSCI1120/1130/ESTR1100/1102, ENGG2440/ESTR2004, ENGG2760/ESTR2018, ENGG2780/ESTR2020, MATH1510[a]	
3.	Required Courses:	
(a)	CSCI2100#/ESTR2102, CSCI4130#/IERG4130#/ESTR4306,	30
	ECON2011#, FINA2310#, FTEC2101/ESTR2520, FTEC3001, 3002, SEEM2520#, SEEM3550#/ESTR3506, SEEM3590#/ESTR3509	
(b)	Research Component Courses[b]:	6
· /	FTEC4998, 4999	-
(c)	Practicum Course:	1
(4)	FTEC2602	2
(d)	Legal Course: FTEC2001	2
4. (a)	Elective Courses: At least 6 units from FTEC4001, 4002, 4003, FTEC4004/IERG4004#,	14
(a)	At least 6 units from FTEC4001, 4002, 4003, FTEC4004/TERO4004#, FTEC4005, 4006, 4007	
(b)	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, ENGG1820,	
	FINA3020#, 3030#, 3070#, 3210#, 4010#, IERG4080#/ESTR4312,	
	IERG4210#, MKTG4120#, SEEM3410#, SEEM3450#/ESTR3502,	
	SEEM3570#/ESTR3508, SEEM3580#, SEEM4730#/ESTR4508	
	Total:	75
In addi	tion to fulfilling the above Major Programme Requirement, students may	also challengo
	lives by taking the following stream offered by the Faculty:	aiso chanenge
	,	
	ering Leadership, Innovation, Technology and Entrepreneurship (ELITE	2) Stream[d]
	e Courses:	
15 units i)	s of courses[e]: 12 units of ESTR courses of which at most 6 units of courses at 1000 or 1	2000 level and
-)	at least 6 units of courses at 3000 or 4000 level[f]	
ii)	3 units of BMEG/CENG/CSCI/ELEG/ENGG/IERG/MAEG/SEEM con	urses at 5000
	level[g]	
Evolar	atam Natas	
Explana	atory Notes: ENGG, ESTR and FTEC courses at 2000 and above level as well as the	se labeled as #
••	will be included in the calculation of Major GPA for honours classificat	
	courses in the Faculty Package and Foundation Courses.	-
[a]	i) Non-JUPAS admittees and JUPAS admittees with HKDSE	
	Extended Modules I or II are required to attend a Mathematics Pl Students who fail or are absent from the Placement Test will be re-	
	Students who fail or are absent from the Placement Test will be re MATH1020 in the same term when they take MATH1510.	equired to take

- 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 Term 2. The pre-assigned course, ENGG1130, 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.
- [c] ESTR courses will be counted as their reciprocal departmental subject areas.
 [d] Details of the entrance and coursework requirements, and declaration procedures for the ELITE Stream can be found at the ELITE website (<u>www.erg.cuhk.edu.hk/elite</u>). 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 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.
- [f] 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).
- [g] 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.

Requirements for admission to the 2nd degree programme

- 1. Admission to the second degree programme is guaranteed if students have:
 - i. fulfilled all graduation requirements of the first degree programme;
 - ii. Major GPA of at least 3.0 upon completion of studies of the first degree programme (ERG); and
 - iii. taken at least 30 relevant units, of which includes ELTU2014, ELTU3014 and mutually recognized courses by both the Engineering and Business Administration Faculties. In addition, students should have achieved a GPA of at least 3.0 in these courses while pursuing the first degree programme. For details of the mutually recognized courses, please refer to the explanatory notes on mutual recognition or exclusion.

Students who do not satisfy the above requirements may still apply for admission to the 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: DSME1030, 1040, MGNT1020	Units 9
2.	Required Courses: ACCT2111, 2121, 2151 or 3151[a], DSME2011, 2030, 2051, FINA2010, IBBA3040, MGNT2511, 2512, 2611, 4010, MKTG2010	32-33
3.	Elective Courses (Concentration): Students must choose at least one concentration and take five or six courses among the courses prescribed under respective concentration area as follows:	15-18
(a)	Business Economics (i) DSME2021, 4110;	

	(ii) two courses selected from: DSME3000, 3011, 3030, 3050,
	3080, 3090, 4040, 4080; and(iii) one DSME course at 3000 or above level, excluding the
(b)	courses taken for fulfillment of requirement (i) or (ii) Business Analytics
(0)	(i) DSME2021, 2040, 4020;
	(ii) one course selected from: DSME4070, 4240, 4260; and
	(iii) one course selected from: DSME3030, 4030, 4110, 4220,
(a)	4280, MKTG4120
(c)	Finance (i) DSME2021 or FINA2020; and
	(ii) 15 units of FINA courses at 3000 or above level, with no more
(1)	than three 1-unit FINA courses
(d)	Entrepreneurship (i) MGNT1070, 2070, 3070, 4170; and
	(i) two courses selected from: MGNT4070, 4090, 4130, 4270,
	4570
(e)	Management of International Business
	 (i) MGNT3580, 4150; and (ii) four courses selected from: MGNT3010, 3080, 3100, 4080,
	4090, 4110, 4130, 4140, 4510, 4530, 4540, 4550, 4570
(f)	Human Resource Management
	(i) MGNT2040, 3010; and
	(ii) four courses selected from: MGNT3040, 3060, 3090, 3100, 4050, 4060, 4080, 4110, 4130, 4140
(g)	Marketing
	(i) MKTG3010, 3020, 3030, 4040; and
	(ii) two courses selected from: MKTG3040, 3050, 4010, 4020,
(h)	4030, 4050, 4070, 4080, 4090, 4110, 4160, 4200 Big Data and Quantitative Marketing
()	(i) MKTG3010, 3060, 4080, 4090; and
	(ii) two courses selected from: MKTG3020, 4030, 4050, 4120,
(i)	4150, 4160, 4170, 4180, 4190, 4200 General Business
(1)	(i) 3 units of DSME/FINA/MGNT/MKTG courses at 2000 or
	above level; and
	(ii) 12 units of DSME/FINA/MGNT/MKTG courses at 3000 or above level, excluding the courses taken for fulfillment of
	requirement (i), with no more than three 1-unit FINA courses
	Total: 56-60
Explanate	v Nataa
1 [^]	
· *	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding
· *	
1.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not
1. 2.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed.
1. 2.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed. DSME2021 and the associated units can be used to satisfy concentration requirements
1. 2.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed.
1. 2. 3.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c). MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f).
1. 2. 3.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c). MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f). Courses taken for the concentration requirements of General Business Concentration
1. 2. 3. 4.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c). MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f). Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to (h).
1. 2. 3. 4.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c). MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f). Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to (h). Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.
1. 2. 3. 4. 5.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c). MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f). Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to (h). Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation. ACCT2151 and ACCT3151 are mutually exclusive. Students who would like to pursue
1. 2. 3. 4. 5.	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c). MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f). Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to (h). Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation.
1. 2. 3. 4. 5. [a]	ACCT/DSME/FINA/IBBA/MGNT/MKTG courses at 2000 and above level (excluding ACCT2111, 2121, IBBA3040, MGNT2511 and 2512) will be included in the calculation of Major GPA for honours classification. Double concentrations in Marketing and Bid Data and Quantitative Marketing are not allowed. DSME2021 and the associated units can be used to satisfy concentration requirements of double concentrations within (a) to (c). MGNT3010 and the associated units can be used to satisfy concentration requirements of double concentrations within (e) and (f). Courses taken for the concentration requirements of General Business Concentration cannot be counted towards the requirements of concentrations (a) to (h). Students claiming Entrepreneurship Concentration are not allowed to declare Minor in Entrepreneurship and Innovation. 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.
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Recommended Course Pattern

	1 st degree: Bachelor of	Units	2 nd degree: Bachelor of	Units
	Engineering (Financial Technology)		Business Administration (Integrated BBA Programme)	
First Year of Attendance	1 st term Faculty Package: Major Required: FINA2310, MATH1510 Major Elective(s):	6	1 st term Faculty Package: Major Required: Major Elective(s):	
·	2 nd term Faculty Package: ENGG1110/ESTR1002, ENGG1120/ESTR1005, ENGG1130/ESTR1006 Major Required: ECON2011	9	2 nd term Faculty Package: Major Required: Major Elective(s):	
	Major Elective(s):			
Second Year of Attendance		8	1 st term Faculty Package: DSME1030 Major Required: Major Elective(s):	3
	2 nd term Major Required: CSCI2100/ESTR2102, ENGG2780/ESTR2020, FTEC2001, FTEC2101/ESTR2520, FTEC2602 Major Elective(s):	11	2 nd term Faculty Package: DSME1040, MGNT1020 Major Required: Major Elective(s):	6
Third Year of Attendance	1 st term Major Required: CSCI4130/ IERG4130/ESTR4306, FTEC3001 or 3002, SEEM2520, SEEM3590/ESTR3509 Major Elective(s):	12	1 st term Major Required: DSME2011 Major Elective(s):	4
	2 nd term Major Required: FTEC3001 or 3002, SEEM3550/ESTR3506 Major Elective(s): 1 course	6 3	2 nd term Major Required: FINA2010 Major Elective(s):	3
Fourth Year of Attendance	1 st term Major Required: FTEC4998 Major Elective(s): 2 courses	3	1 st term Major Required: ACCT2111, MGNT2512, 2611	6
	2 nd term Major Required: FTEC4999 Major Elective(s): 2 courses	3 5	Major Elective(s): 2 nd term Major Required: ACCT2121, MKTG2010, MGNT2511	7
Fifth Year of Attendance			Major Elective(s): 1 course 1 st term Major Required: ACCT2151 or 3151, DSME2030, IBBA3040	6-7
			Major Elective(s): 3 courses 2 nd term Major Required: MGNT4010, DSME2051	9 6
	Total (including Faculty Package):	75	Major Elective(s): 1-2 courses Total (including Faculty Package):	3-6 56-60
	Cour	se List		

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
ESTR2020	Statistics for Engineers	2
ESTR2520	Optimization Methods	3
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	
FTEC4998	Final Year Project I	3
FTEC4999	Final Year Project II	3

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Study Scheme Learning Outcomes

Learning Outcomes

1. Major Programme:

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

- (1) 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

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Course Information

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