

(Study Scheme - English)

Programme Title

Financial Engineering

Study Scheme

Applicable to students admitted in 2018-2019 and thereafter

Major Programme Requirement

Studies in Financial Engineering are divided into TWO main streams and students are required to specialize in one of the streams:

- (1) Quantitative Finance; and
- (2) FinTech

Quantitative Finance Stream

Students are required to complete a minimum of 70 units of courses as follows:

	Units
1. School Package: ACT2111, CSC1001, 1002, ECO2011, FIN2010, 2020, MAT1001, 1002, 2040, STA2001	28
2. Required Courses: DMS3003, FIN3080, 4110, 4120, MAT2002, 3007, 3300, STA2002	24
3. Elective Courses: Six courses selected from the following ACT4253, CSC3001, 3100, DMS3002, ECO3121, 3160, FIN4060, 4080, 4210, 4231, 4560, FMA4200, 4800, FTE4999, MAT3280, 4500, RMS4060, STA3010, 4001, 4003	18
Total:	70

FinTech Stream

Students are required to complete a minimum of 70 units of courses as follows:

	Units
1. School Package: ACT2111, CSC1001, 1002, ECO2011, FIN2010, 2020 MAT1001, 1002, 2040, STA2001	28
2. Required Courses: CSC3001, 3100, ECO3121, ERG2050, FIN3080, 4560, FTE4560 MAT3007	24
3. Elective Courses: Six courses selected from the following ACT4253, CSC3150, 3170, 3180, 4008, EIE4007, ERG3010, 3020, FIN4060, 4110, 4120, 4210, FMA4200, FTE2001, 4003, 4999, MKT4220, RMS4060, STA3010, 4003	18
	Total: <hr style="display: inline-block; width: 100px; border: 0.5px solid black; margin-left: 5px;"/> 70

Notes: Courses included in the calculation of Major GPA for honors classification:

- [1] Courses in School Package at 2000 and above level
- [2] All courses in Major required and Major Elective

課程名稱

金融工程

修讀辦法

二〇一八至一九年度及以後入學學生適用

主修課程要求

本課程分設兩項專修範圍，學生須選修其中一項專修範圍：

- (1) 量化金融；及
- (2) 金融科技。

量化金融專修範圍

學生須至少修畢以下科目共 70 學分：

	學分
1. 學院課程： ACT2111, CSC1001, 1002, ECO2011, FIN2010, 2020, MAT1001, 1002, 2040, STA2001	28
2. 必修科目： DMS3003, FIN3080, 4110, 4120, MAT2002, 3007, 3300, STA2002	24
3. 選修科目： 從以下選修六科 ACT4253, CSC3001, 3100, DMS3002, ECO3121, 3160, FIN4060, 4080, 4210, 4231, 4560, FMA4200, 4800, FTE4999, MAT3280, 4500, RMS4060, STA3010, 4001, 4003	18

共： 70

金融科技专修范围

學生須至少修畢以下科目共70 學分：

	學分
1. 學院課程： ACT2111, CSC1001, 1002, ECO2011, FIN2010, 2020 MAT1001, 1002, 2040, STA2001	28
2. 必修科目： CSC3001, 3100, ECO3121, ERG2050, FIN3080, 4560, FTE4560, MAT3007	24
3. 選修科目： 從以下選修六科 ACT4253, CSC3150, 3170, 3180, 4008, EIE4007, ERG3010, 3020, FIN4060, 4110, 4120, 4210, FMA4200, FTE2001, 4003, 4999, MKT4220, RMS4060, STA3010, 4003	18
共：	<hr/> 70

注：以下科目將會計入主修科目之平均績點，並用以厘定學位等級：

[1] 2000 及以上程度的學院課程

[2] 所有必修科目及選修科目

Recommended Course Pattern

- Sufficient units should be allowed in each term for students to fulfill the University Core Requirements, which include: (i) 3 units of Chinese; (ii) 12 units of English; (iii) 1 unit of IT; (iv) 18 units of General Education; and (v) 2 units of Physical Education and Health.
- Programmes with different streams/concentrations are required to provide the recommended pattern for each stream/concentration.

Major Programme Requirement of <u>Financial Engineering</u>		
	Recommended Course Pattern	Units
First Year of Attendance	1 st term School Package: ACT2111, ECO2011, MAT1001	9
	2 nd term School Package: CSC1001, 1002, FIN2010, MAT1002, STA2001	13
Second Year of Attendance	1 st term School Package: FIN2020, MAT2040 Major Required: ECO3121 ^[2] , STA2002 ^[1]	9
	2 nd term Major Required: CSC3001 ^[2] , DMS3003 ^[1] , ERG2050 ^[2] , FIN3080, MAT2002 ^[1]	9
Third Year of Attendance	1 st term Major Required: CSC3100 ^[2] , MAT3007, 3300 ^[1] Major Elective(s): one course from Major Elective(s)	6 3
	2 nd term Major Required: FIN4110 ^[1] , FTE4560 ^[2] Major Elective(s): one course from Major Elective(s)	3 3
Fourth Year of Attendance	1 st term Major Required: FIN4120 ^[1] , FIN4560 ^[2] Major Elective(s): two courses from Major Elective(s)	3 6
	2 nd term Major Elective(s): two courses from Major Elective(s)	6
Total (Major Requirement including School Package):		70

Explanatory Notes:

- [1] Applicable to Quantitative Finance Stream only.
 [2] Applicable to FinTech Stream only.

修課推介

1. 每學期均須預留足夠學分讓同學符合大學核心課程要求，包括：(一)中文三學分；(二)英文十二學分；(三)資訊科技一學分；(四)通識教育十八學分及(五)體育與健康兩學分。
2. 有不同專修範圍的課程須為每項專修範圍提供修課推介。

金融工程主修課程要求		
	修課推介	學分
第一修業學年	第一學期 學院課程: ACT2111, ECO2011, MAT1001	9
	第二學期 學院課程: CSC1001,1002, FIN2010, MAT1002, STA2001	13
第二修業學年	第一學期 學院課程: FIN2020, MAT2040 主修必修科目: ECO3121 ^[2] , STA2002 ^[1]	9
	第二學期 主修必修科目: CSC3001 ^[2] , DMS3003 ^[1] , ERG2050 ^[2] , FIN3080, MAT2002 ^[1]	9
第三修業學年	第一學期 主修必修科目: CSC3100 ^[2] , MAT3007, 3300 ^[1] 主修選修科目: 從主修選修科目選修一科	6 3
	第二學期 主修必修科目: FIN4110 ^[1] , FTE4560 ^[2] 主修選修科目: 從主修選修科目選修一科	3 3
第四修業學年	第一學期 主修必修科目: FIN4120 ^[1] , FIN4560 ^[2] 主修選修科目: 從主修選修科目選修兩科	3 6
	第二學期 主修選修科目: 從主修選修科目選修兩科	6
合共 (主修要求包括學院課程):		70

注:

[1] 只適用於量化金融專修範圍。

[2] 只適用於金融科技專修範圍。