

(Study Scheme – English)

Title of Double Major Programme

(Applicable to students admitted by CUHK(SZ))

Bachelor of Science in Data Science and Big Data Technology & Aerospace Science and Earth Informatics Double Major Programme

Bachelor of Social Science in Urban Management & Aerospace Science and Earth Informatics Double Major Programme

Bachelor of Engineering in Electrical and Computer Engineering & Aerospace Science and Earth Informatics Double Major Programme

Bachelor of Science in New Energy Science and Engineering & Aerospace Science and Earth Informatics Double Major Programme

Bachelor of Science in Physics & Aerospace Science and Earth Informatics Double Major Programme

Study Scheme

Applicable to students admitted in 2024-25 and thereafter

Students are required to complete a minimum of 90 units of courses. Students will be admitted to one of the 1st Major as specified in 2. below offered by CUHK(SZ), and take the Aerospace Science and Earth Informatics offered by CUHK as 2nd Major. Some courses offered by CUHK and CUHK(SZ) are substitute/equivalent/alternative courses. Please refer to [the list of substitute/equivalent/alternative courses](#) for details.

Major Programme Requirement

	Units
1. Faculty Package: CSC1001, MAT1001, URM2010	9
2. <u>1st Major offered by CUHK(SZ):</u> Students admitted to one of the following 1 st Majors are required to complete the units of courses as specified:	
(a) Data Science and Big Data Technology (CUHK(SZ))	
i) Required Courses: CSC3100, DDA3020, MAT1002, 3007, STA2001, 2002	18
ii) Research Component: DDA4080	3
iii) Elective Courses: CSC1002, 2003, 3170, 4120, 4160, DDA3003, 3005, 4002, 4107, 4210, 4220, 4240, 4250, 4260, MAT2050, 3220, 3280, STA3001, 3005, 3020, 4001, 4002, 4003, 4020	27
(b) Urban Management (CUHK(SZ))	
i) Required Courses:	30

	URM2020, 2030 (or ECO2121), 3010, 3020, 3030, 3040, 4010, 4020, 4030, 4150	
ii)	Research Component: URM4050	3
iii)	Elective Courses: ECO4001, GLB3060, URM3050, 3110, 3120, 3130, 4110, 4120, 4130, 4140, 4160	15
(c)	Electrical and Computer Engineering (CUHK(SZ))	
i)	Required Courses: ECE2001, 2050, 3001, 3050, STA2001	15
ii)	Research Component: ERG4902	3
iii)	Elective Courses: CSC3100, 3180, DDA3020, ECE3060, 4010, 4016, 4300, MAT1002, 3007, 3350, 4220	30
(d)	New Energy Science and Engineering (CUHK(SZ))	
i)	Required Courses: ECE2001, ENE3004, 3005, 3050, STA2002	15
ii)	Research Component: ERG4902	3
iii)	Elective Courses: CSC3002, 3150, DDA3020, ECE3001, ENE3006, 4001, 4005, 4007, 4008, 4011, MAT3007	30
(e)	Physics (CUHK(SZ))	
i)	Required Courses: MAT1002, PHY1010, 1910, 2002, 2020, 2610, 2650, 3002 or 3310, 3110, 3410, STA2001	30
ii)	Research Component: PHY4270, 4280	6
iii)	Elective Courses: MAT2001, PHY1920, 3120, 3320 or 4002, 3420, 3650, 3810, 3820, 3950, 3960, 4001, 4510, 4810	12
3.	<u>2nd Major: Aerospace Science and Earth Informatics offered by CUHK</u>	
(a)	Required Courses:	21
i)	ENGG1120, EESC2020, GRMD2104, 2105, MAEG1020, PHYS1110 or 1111	
ii)	3 Units from the following courses: Field Trips: COOP1001, 2001, EESC1009, 2009, 2119, 2129, 2909, 3900, GRMD2111, MAEG2050	

(b) Elective Courses

12

Students are required to take a total of 12 units of elective courses from the area which corresponds to their 1st Major. At least 6 units of courses should be from 3000 or above level, including at least 3 units of courses at 4000 level.

Areas

i) **Data Science and Big Data Technology (CUHK(SZ))**

Courses offered by CUHK(SZ):

CHM1001, ECE2001, 2050, 4010, MAT2001, PHY1010, 2020, 2650, 3650, URM3030, 3120, 4020

Students can also take the following elective courses offered by CUHK to fulfill the requirements:

EEEN2020, 3020, 4010, ENGG1310, MAEG3060, PHYS1712, 2051, 2401, 4061

ii) **Urban Management (CUHK(SZ))**

Courses offered by CUHK(SZ):

CHM1001, CSC1002, DDA3005, 3020, 4220, ECE2001, 2050, 3060, 4010, ENE3004, 3005, 3006, 3050, 4007, 4008, MAT1002, 2001, 3007, PHY1010, 2002, 2020, 2610, 2650, 3002, 3110, 3240, 3410, 3650, 3710, 3810, 3820, 3950, 3960, 4001, 4510

Students can also take the following elective courses offered by CUHK to fulfill the requirements:

CHEM1072, EEEN2020, 3020, 4010, 4070, EESC2010, 2020, 2030, 3020, 3200, 3220, 4550, ENGG1310, PHYS1712, 2401, 2711, 3022, 4041, 4061, 4420

iii) **Electrical and Computer Engineering (CUHK(SZ))**

Courses offered by CUHK(SZ):

CHM1001, CSC1002, DDA3005, 3020, 4220, ENE3004, 3005, 3006, 3050, 4007, 4008, MAT2001, PHY1010, 2002, 2020, 2610, 2650, 3002, 3110, 3240, 3410, 3650, 3710, 3810, 3820, 3950, 3960, 4001, 4510, STA2001, URM3010, 3030, 3120, 4010, 4020, 4110, 4150

Students can also take the following elective courses offered by CUHK to fulfill the requirements:

CHEM1072, EESC2010, 2020, 2030, 3020, 3200, 3220, 3800, 4510, 4540, 4550, GRMD2221, 2402, 2501, 3104, 3108, 4101, MATH2550, PHYS1712, 2401, 2711, 3022, 4041, 4061, 4420, STAT1011

iv) **New Energy Science and Engineering (CUHK(SZ))**

Courses offered by CUHK(SZ):

CSC1002, DDA3005, 3020, 4220, ECE2050, 3060, 4010, MAT1002, 2001, 3007, PHY2002, 2020, 2610, 2650, 3002, 3110, 3240, 3410, 3650, 3710, 3810, 3820, 3950, 3960, 4001, 4510, STA2001, URM3010, 3030, 3120, 4010, 4020, 4110, 4150

Students can also take the following elective courses offered by CUHK to fulfill the requirements:

EEEN4070, EESC2010, 2020, 2030, 3020, 3200, 3220, 3800, 4510, 4540, 4550, GRMD2221, 2402, 2501, 3104, 3108, 4101, MATH2550, PHYS1712, 2401, 2711, 3022, 4041, 4061, 4420, STAT1011

v) **Physics (CUHK(SZ))**

Courses offered by CUHK(SZ):

CHM1001, CSC1002, DDA3005, 3020, 4220, ECE2001, 2050, 3060, 4010, ENE3004, 3005, 3006, 3050, 4007, 4008, MAT3007, STA2001, URM3010, 3030, 3120, 4010, 4020, 4110, 4150

Students can also take the following elective courses offered by CUHK to fulfill the requirements:

CHEM1072, EEEN2020, 3020, 4010, 4070, EESC2010, 2020, 2030, 3020, 3200, 3220, 3800, 4510, 4540, 4550, ENGG1310, GRMD2221, 2402, 2501, 3104, 3108, 4101, MATH2550, STAT1011

Total: 90

Explanatory Notes:

1. Students enrolled in the Double Major Programme should normally spend four regular terms at CUHK during the four years of study, except otherwise specified in 2. and 3. below.
2. Students may apply for the Co-operative Education (Co-op) Programme (5 units) in Year 2 or above. Students joining the Co-op Programme will undertake a full-time placement in two specific work terms, including one summer session and one regular term (i.e., term 1 or term 2). They have to spend at least three regular terms at CUHK during the four years of study.
3. Students who join term-time exchange programme have to spend at least three regular terms at CUHK during the four years of study.
4. Students enrolled in the Double Major programme can take substitute/equivalent/alternative courses either at CUHK or CUHK(SZ). The list of substitute/equivalent/alternative courses is available at this link (a URL link to be provided by the programme in due course). Students should not take a course and its substitute/equivalent/alternative course. Should they do so, only one course will be counted towards the fulfilment of units requirements. Grades of relevant substitute/equivalent/alternative courses taken at CUHK will be transferred to CUHK(SZ) for the purpose of calculation of GPA, Major GPA and credit units.
5. For Data Science and Big Data Technology as 1st Major, all Faculty Package, Major required, Research Component and Major Elective courses of the 1st Major Programme, as well as ENGG1120, GRMD2105 and (PHYS1110 or PHYS1111) will be included in the calculation of Major GPA for honors classification.
6. For Urban Management as 1st Major, all Major required, Research Component and Major Elective courses of the 1st Major Programme, as well as EESC2020, GRMD2104, 2105, and URM2010 will be included in the calculation of Major GPA for honors classification.
7. For Electrical and Computer Engineering as 1st Major, all Major Required, Research Component and Major Elective courses at 2000 and above level of the 1st Major Programme, as well as GRMD2104 and GRMD2105, will be included in the calculation of Major GPA for honours classification.

8. For New Energy Science and Engineering as 1st Major, all Major Required, Research Component and Major Elective courses at 2000 and above level of the 1st Major Programme will be included in the calculation of Major GPA for honours classification.
9. For Physics as 1st Major, all Major Required (excluding PHY1910 and STA2001), Research Component and Major Elective courses, as well as CSC1001, MAT1001 and (PHYS1110 or 1111), will be included in the calculation of Major GPA for honours classification.
11. Courses taken to fulfil the requirements of the 1st Major cannot be counted towards the fulfilment of requirements of the 2nd Major, and vice versa.
12. Under very special circumstances and subject to approval by the Major programmes concerned, students may opt out of the Double Major Programme and register for the 1st Major programme only. The decision to opt out is irrevocable. Students who have opted out are required to complete and fulfill all graduation requirements by following study scheme of the 1st Major Programme as a single major. Students should be aware that such decisions may result in a delay in graduation because the requirements of the single major study scheme differ from those of the Double Major Programme.

(Study Scheme – Chinese)

雙主修課程名稱

(適用於經中大(深圳)取錄的學生)

數據科學與大數據技術及航天科學與地球信息學理學士雙主修課程

城市管理及航天科學與地球信息學社會科學學士雙主修課程

電子與計算機工程及航天科學與地球信息學工程學士雙主修課程

新能源科學與工程及航天科學與地球信息學理學士雙主修課程

物理學及航天科學與地球信息學理學士雙主修課程

修讀辦法

二〇二四至二五年度及以後入學學生適用

學生須至少修畢 90 學分。學生將獲以下第 2 項所列由中大(深圳)開設的其中一個課程取錄，作為第一主修，並修讀由中大開設的航天科學與地球信息學為第二主修。中大及中大(深圳)開設的部分科目有替代／相等／其他指定科目作取代，詳情請參考[相關的科目列表](#)。

主修課程要求

	學分
1. 學院課程： CSC1001, MAT1001, URM2010	9
2. <u>中大(深圳)開設的第一主修</u> 獲取錄修讀以下其中一個課程的學生，須修畢其所列科目：	
(a) 數據科學與大數據技術(中大(深圳))	
i) 必修科目： CSC3100, DDA3020, MAT1002, 3007, STA2001, 2002	18
ii) 總結科目： DDA4080	3
iii) 選修科目： CSC1002, 2003, 3170, 4120, 4160, DDA3003, 3005, 4002, 4107, 4210, 4220, 4240, 4250, 4260, MAT2050, 3220, 3280, STA3001, 3005, 3020, 4001, 4002, 4003, 4020	27
(b) 城市管理(中大(深圳))	
i) 必修科目： URM2020, 2030 (or ECO2121), 3010, 3020, 3030, 3040, 4010, 4020, 4030, 4150	30

	ii)	總結科目： URM4050	3
	iii)	選修科目： ECO4001, GLB3060, URM3050, 3110, 3120, 3130, 4110, 4120, 4130, 4140, 4160	15
(c)		電子與計算機工程（中大（深圳））	
	i)	必修科目： ECE2001, 2050, 3001,3050, STA2001	15
	ii)	總結科目： ERG4902	3
	iii)	選修科目： CSC3100, 3180, DDA3020, ECE3060, 4010, 4016, 4300, MAT1002, 3007, 3350, 4220	30
(d)		新能源科學與工程（中大（深圳））	
	i)	必修科目： ECE2001, ENE3004, 3005, 3050, STA2002	15
	ii)	總結科目： ERG4902	3
	iii)	選修科目： CSC3002, 3150, DDA3020, ECE3001, ENE3006, 4001, 4005, 4007, 4008, 4011, MAT3007	30
(e)		物理學（中大（深圳））	
	i)	必修科目： MAT1002, PHY1010, 1910, 2002, 2020, 2610, 2650, 3002 or 3310, 3110, 3410, STA2001	30
	ii)	總結科目： PHY4270, 4280	6
	iii)	選修科目： MAT2001, PHY1920, 3120, 3320 or 4002, 3420, 3650, 3810, 3820, 3950, 3960, 4001, 4510, 4810	12
3.		<u>中大開設的第二主修：航天科學與地球信息學</u>	
(a)		必修科目：	21
	i)	ENGG1120, EESC2020, GRMD2104, 2105, MAEG1020, PHYS1110 or 1111	
	ii)	從下列科目選修 3 學分； COOP1001, 2001, EESC1009, 2009, 2119, 2129, 2909, 3900, GRMD2111, MAEG2050	

(b) 選修科目：

12

學生須從與第一主修對應的範圍中修讀共 12 學分的選修科目。其中至少 6 學分 3000 或以上程度的科目，包括至少 3 學分 4000 程度的科目。

範圍

i) **數據科學與大數據技術（中大（深圳））**

由中大(深圳)開設的科目：

CHM1001, ECE2001, 2050, 4010, MAT2001, PHY1010, 2020, 2650, 3650, URM3030, 3120,4020

學生也可修讀以下由中大開設的選修科目以符合要求：

EEEN2020, 3020, 4010, ENGG1310, MAEG3060, PHYS1712, 2051, 2401, 4061

ii) **城市管理（中大（深圳））**

由中大（深圳）開設的科目：

CHM1001, CSC1002, DDA3005, 3020, 4220, ECE2001, 2050, 3060, 4010, ENE3004, 3005, 3006, 3050, 4007, 4008, MAT1002, 2001, 3007, PHY1010, 2002, 2020, 2610, 2650, 3002, 3110, 3240, 3410, 3650, 3710, 3810, 3820, 3950, 3960, 4001, 4510

學生也可修讀以下由中大開設的選修科目以符合要求：

CHEM1072, EEEN2020, 3020, 4010, 4070, EESC2010, 2020, 2030, 3020, 3200, 3220, 4550, ENGG1310, PHYS1712, 2401, 2711, 3022, 4041, 4061, 4420

iii) **電子與計算機工程（中大（深圳））**

由中大（深圳）開設的科目：

CHM1001, CSC1002, DDA3005, 3020, 4220, ENE3004, 3005, 3006, 3050, 4007, 4008, MAT2001, PHY1010, 2002, 2020, 2610, 2650, 3002, 3110, 3240, 3410, 3650, 3710, 3810, 3820, 3950, 3960, 4001, 4510, STA2001, URM3010, 3030, 3120, 4010, 4020, 4110, 4150

學生也可修讀以下由中大開設的選修科目以符合要求：

CHEM1072, EESC2010, 2020, 2030, 3020, 3200, 3220, 3800, 4510, 4540, 4550, GRMD2221, 2402, 2501, 3104, 3108, 4101, MATH2550, PHYS1712, 2401, 2711, 3022, 4041, 4061, 4420, STAT1011

iv) **新能源科學與工程（中大（深圳））**

由中大（深圳）開設的科目：

CSC1002, DDA3005, 3020, 4220, ECE2050, 3060, 4010, MAT1002, 2001, 3007, PHY2002, 2020, 2610, 2650, 3002, 3110, 3240, 3410, 3650, 3710, 3810, 3820, 3950, 3960, 4001, 4510, STA2001, URM3010, 3030, 3120, 4010, 4020, 4110, 4150

學生也可修讀以下由中大開設的選修科目以符合要求：

EEEN4070, EESC2010, 2020, 2030, 3020, 3200, 3220, 3800, 4510, 4540, 4550, GRMD2221, 2402, 2501, 3104, 3108, 4101, MATH2550,

PHYS1712, 2401, 2711, 3022, 4041, 4061, 4420, STAT1011

v) 物理學 (中大 (深圳))

由中大 (深圳) 開設的科目：

CHM1001, CSC1002, DDA3005, 3020, 4220, ECE2001, 2050, 3060, 4010, ENE3004, 3005, 3006, 3050, 4007, 4008, MAT3007, STA2001, URM3010, 3030, 3120, 4010, 4020, 4110, 4150

學生也可修讀以下由中大開設的選修科目以符合要求：

CHEM1072, EEEN2020, 3020, 4010, 4070, EESC2010, 2020, 2030, 3020, 3200, 3220, 3800, 4510, 4540, 4550, ENGG1310, GRMD2221, 2402, 2501, 3104, 3108, 4101, MATH2550, STAT1011

共： 90

註：

1. 除下列第 2 及 3 項指明外，修讀此雙主修課程的學生於肄業四年期間，一般須於中大學習四個常規學期。
2. 於第二或以上修業學年，學生可選修 5 學分之『在學・在職計劃』。參與計劃的學生將於兩個指定學期做全職工作，包括一個暑期及一個常規學期（第一或第二學期）。他們須於中大學習最少三個常規學期。
3. 於常規學期參加交換生計劃的學生，須於中大學習最少三個常規學期。
4. 修讀此雙主修課程的學生可於中大或中大(深圳)修讀替代／相等／其他指定科目。有關替代／相等／其他指定科目詳情見此網頁（網址稍後由課程提供）。學生不可同時修讀一科目及其替代／相等／其他指定科目。如發生此情況，只有其中一科將用以符合學分要求。於中大修讀的有關替代／相等／其他指定科目之成績，將傳送至中大(深圳)用作計算平均積點／主修科目之平均積點及學分。
5. 以數據科學與大數據技術為第一主修，其所有列於第一主修課程要求的學院課程、必修科目、總結科目及選修科目，及 ENGG1120 及 GRMD2105 及 (PHYS1110 或 PHYS1111) 將會計入第一主修主修科目之平均積點，並用以釐定學位等級。
6. 以城市管理為第一主修，其所有列於第一主修課程要求的必修科目、總結科目及選修科目，ESSC2020、GRMD2104、2105 及 URM2010 將會計入第一主修主修科目之平均積點，並用以釐定學位等級。
7. 以電子與計算機工程為第一主修，其所有列於第一主修課程要求的必修科目、總結科目及選修科目之 2000 及以上程度的科目，及 GRMD2104 及 GRMD2105 將會計入第一主修主修科目之平均積點，並用以釐定學位等級。
8. 以新能源科學與工程為第一主修，其所有列於第一主修課程要求的必修科目、總結科目及選修科目之 2000 及以上程度的科目將會計入第一主修主修科目之平均積點，並用以釐定學位等級。
9. 以物理學為第一主修，其所有列於第一主修課程要求的必修科目(除 PHY1910 及 STA2001 之外)、總結科目及選修科目，以及 CSC1001、MAT1001 及(PHYS1110 或 PHYS1111) 將會計入第一主修主修科目之平均積點，並用以釐定學位等級。
10. 用以符合第一主修課程要求所修讀的科目，不可用作符合第二主修課程要求，反之亦然。
11. 在極為特殊情況下，學生如獲主修課程批核，可選擇退出本雙主修課程，改為只主修第一主修課程。此退出的決定不可逆轉。已退出的學生須修畢並符合所有第一主修課程作為單一主修課程時所載於修讀辦法的畢業要求。由於單一主修課程的要求與雙主修課程不同，學生須留意此決定或會導致延遲畢業。

(Recommended Course Pattern - English)

Recommended Course Pattern

1. A student shall take at least 9 units and no more than 18 units of courses in any term within the normative study period. A student shall take no more than 6 units of courses in each summer session, and no student shall be allowed to take more than 39 units in an academic year.
2. Sufficient units should be allowed in each term for students to fulfill the University Core Requirements, which include: (i) 15 units of Chinese and English; (ii) 1 unit of IT; (iii) 18 units of General Education, including 6 units of foundation GE courses, 12 units of GE (area courses); and (iv) 2 units of Physical Education.
3. Programmes with different streams/concentrations are required to provide the recommended pattern for each stream/concentration.

Major Programme Requirement of <u>X & Aerospace Science and Earth Informatics Double Major Programme</u>[a]							
Recommended Course Pattern[b][c]							
	First Major	Units	University Core Requirements	Units	Second Major (Aerospace Science and Earth Informatics)	Units	Total Units
First Year of Attendance (1st term at CUHK(SZ); 2nd term at CUHK; Summer Session at CUHK(SZ))	1 st term Faculty Package: 2 courses Major Required: Major Elective(s):	6	1 st term CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	1 st term Major Required: 1 course Major Elective(s):	3	17
	2 nd term Faculty Package: 1 course Major Required: 1 course Major Elective(s):	3 3	2 nd term ENG1002 GFH1000 or GFN1000 PED1002	3 3 1	2 nd term Major Required: 2 courses Major Elective(s):	6	19[d]
	Summer Session		Summer Session		Summer Session Major Required: COOP1001[e]	1	1
Second Year of Attendance (1st term at CUHK(SZ); 2nd term and Summer)	1 st term Major Required: 2 Major Elective(s):	6	1 st term ENG2001 GFH1000 or GFN1000	3 3	1 st term Major Required: 2 courses Major Elective(s):	6	18
	2 nd term Major Required: 1 course Major Elective(s): 2 courses	3 6	2 nd term ENG2002H or 2002S 1 GE Elective course	3 3	2 nd term Major Required: 1 course Major Elective(s):	3	18

Session at CUHK))	Summer Session		Summer Session		Summer Session Major Required: COOP2001[e]	2	2
Third Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: Major Elective(s): 3 courses	9	1 st term 1 GE Elective course	3	1 st term Major Required: Major Elective(s): 1 course	3	15
	2 nd term Major Required: Major Elective(s): 3 courses	9	2 nd term 1 GE Elective course	3	2 nd term Major Required: Major Elective(s): 1 course	3	15
Fourth Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: Major Elective(s): 2 courses	6	1 st term		1 st term Major Required: Major Elective(s): 1 course	3	9
	2 nd term Major Required: Major Elective(s): 2 courses	6	2 nd term 1 GE Elective course	3	2 nd term Major Required: Major Elective(s): 1 course	3	12
Total of First Major (including Faculty Package):		57	Total of University Core Requirements:	36	Total of Second Major:	33	126

[a] Students may apply to study in the Co-operative Education Programme (Co-op@CUHK) (5 units) in Year 2 or above. Students who study the Co-op programme will take COOP4001, which is a 1-unit course to be taken in each of the Summer Session of Year 3 and Term 1 of Year 4. They will undertake a full-time placement in two specific work terms, during which they are not allowed to register for any other courses except the 1-unit continuous assessment course COOP4001. For students who have to take more than 1 unit of course in the work term, they should provide strong justifications for each additional course for approval by the Co-operative Education Programme Committee and the major programme.

[b] When students are studying at CUHK, they can take substitute/equivalent/alternative courses at CUHK to fulfill the requirements of CUHK(SZ).

[c] Students enrolled in different 1st Major programmes may refer to the individual course patterns developed by each programme, which may deviate slightly from the general recommended course pattern above.

[d] Approval has been granted by the Director of the Registry Services for students of the X & Aerospace Science and Earth Informatics Double Major Programme to take 19 units of courses in Term 1 and/or Term 2 of Year 1.

[e] Students have to take 3 units of courses from item 3(a)(ii) of the study scheme. These courses may be offered in other terms.

(Recommended Course Pattern - Chinese)

修課推介

1. 學生於其常規修業期限內的每學期修課不得少於九學分，亦不得多於十八學分。學生於每一暑期修課不得多於六學分，於每學年修課一概不得多於三十九學分。
2. 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)中文及英文十五學分；(二) 信息科技一學分；(三)通識教育十八學分，包括通識教育基礎課程六學分及大學通識（範圍科目）十二學分；及(四)體育二學分。
3. 有不同專修範圍的課程須為每項專修範圍提供修課推介。

	X 及航天科學與地球信息學雙主修課程要求[a]						
	修課推介[b][c]						
	第一主修	學分	大學核心課程要求	學分	第二主修（航天科學與地球信息學）	學分	學分合共
第一修業學年 (第一學期在中大(深圳)修讀；第二學期在中大修讀；暑期課程在中大(深圳)修讀)	第一學期 學院課程：兩科 主修必修科目： 主修選修科目：	6	第一學期 CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	第一學期 主修必修科目：一科 主修選修科目：	3	17
	第二學期 學院課程：一科 主修必修科目：一科 主修選修科目：	3 3	第二學期 ENG1002 一科 GFH1000 或 GFN1000 科目 PED1002	3 3 1	第二學期 主修必修科目：兩科 主修選修科目：	6	19[d]
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP1001[e]	1	1
第二修業學年 (第一學期	第一學期 主修必修科目：兩科 主修選修科目：	6	第一學期 ENG2001 一科 GFH1000 或 GFN1000 科目	3 3	第一學期 主修必修科目：兩科 主修選修科目：	6	18

在中大（深圳）修讀； 第二學期及 暑期課程在 中大修讀）	第二學期 主修必修科目：一科 主修選修科目：兩科	3 6	第二學期 ENG2002H 或 2002S 一科 一科通識教育科目	3 3	第二學期 主修必修科目：一科 主修選修科目：	3	18
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP2001[e]	2	2
第三修業學 年 （第一學期 在中大修 讀；第二學 期在中大 （深圳）修 讀）	第一學期 主修必修科目： 主修選修科目：三科	9	第一學期 一科通識教育科目	3	第一學期 主修必修科目： 主修選修科目：一科	3	15
	第二學期 主修必修科目： 主修選修科目：三科	9	第二學期 一科通識教育科目	3	第二學期 主修必修科目： 主修選修科目：一科	3	15
第四修業學 年 （第一學期 在中大修 讀；第二學 期在中大 （深圳）修 讀）	第一學期 主修必修科目： 主修選修科目：兩科	6	第一學期		第一學期 主修必修科目： 主修選修科目：一科	3	9
	第二學期 主修必修科目： 主修選修科目：兩科	6	第二學期 一科通識教育科目	3	第二學期 主修必修科目： 主修選修科目：一科	3	12
第一主修共（包括學院課程）：		57	大學核心課程要求共：	36	第二主修共：	33	126

[a] 於第二或以上修業學年，學生可選修 5 學分之『在學・在職計劃』。選修『在學・在職計劃』的學生須於第三修業學年暑期及第四修業學年第一學期各修讀一學分的 COOP4001。學生將於兩個指定學期做全職工作，期間除一學分的評核科目 COOP4001 外，將不能報讀其他科目。學生如欲於工作學期修讀多於一學分，須向『在學・在職計劃』委員會及主修課程申請，並為每科額外申請的科目提供正當及有力的理由。

[b] 學生在中大修課時，可在中大修讀替代／相等／其他指定科目以符合中大（深圳）的要求。

[c] 不同的第一主修課程的修課推介或會與上述一般修課推介稍有不同，學生可參考各第一主修課程所設計的修課推介。

- [d] 教務處處長已核准 X 及航天科學與地球信息學雙主修課程之學生於第一修業學年的第一學期及／或第二學期各修課 19 學分。
- [e] 學生須從修課推介第 3(a)(ii)項所列科目中選修三學分。這些科目或於其他學期開設。

(Recommended Course Pattern - English)

Recommended Course Pattern

4. A student shall take at least 9 units and no more than 18 units of courses in any term within the normative study period. A student shall take no more than 6 units of courses in each summer session, and no student shall be allowed to take more than 39 units in an academic year.
5. Sufficient units should be allowed in each term for students to fulfill the University Core Requirements, which include: (i) 15 units of Chinese and English; (ii) 1 unit of IT; (iii) 18 units of General Education, including 6 units of foundation GE courses, 12 units of GE (area courses); and (iv) 2 units of Physical Education.
6. Programmes with different streams/concentrations are required to provide the recommended pattern for each stream/concentration.

Major Programme Requirement of <u>Data Science and Big Data Technology (CUHK(SZ))</u> & <u>Aerospace Science and Earth Informatics (CUHK)</u>[a] Recommended Course Pattern[b]							
	First Major (Data Science and Big Data Technology)	Units	University Core Requirements	Units	Second Major (Aerospace Science and Earth Informatics)	Units	Total Units
First Year of Attendance (1st term at CUHK(SZ); 2nd term at CUHK; Summer Session at CUHK(SZ))	1 st term Faculty Package: CSC1001, MAT1001 Major Required: Major Elective(s):	6	1 st term CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	1 st term Major Required: ENGG1120 Major Elective(s):	3	17
	2 nd term Faculty Package: URM2010 Major Required: MAT1002 Major Elective(s):	3 3	2 nd term ENG1002 GFH1000 or GFN1000 PED1002	3 3 1	2 nd term Major Required: GRMD2104, PHYS1110 or 1111 Major Elective(s):	6	19[c]
	Summer Session		Summer Session		Summer Session Major Required: COOP1001[d]	1	1
Second Year of Attendance (1st term at CUHK(SZ); 2nd term)	1 st term Major Required: MAT3007, STA2001 Major Elective(s):	6	1 st term ENG2001 GFH1000 or GFN1000	3 3	1 st term Major Required: GRMD2105 Major Elective(s):	3	15
	2 nd term Major Required: DDA3020, STA2002	6 3	2 nd term ENG2002S 1 GE Elective course	3 3	2 nd term Major Required: Major Elective(s): 1 course from item	3	18

and Summer Session at CUHK))	Major Elective(s): 1 course from item 2(a)(iii) of the study scheme				3(b)(i) of the study scheme		
	Summer Session		Summer Session		Summer Session Major Required: COOP2001[d]	2	2
Third Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: Major Elective(s): 3 courses from item 2(a)(iii) of the study scheme	9	1 st term 1 GE Elective course	3	1 st term Major Required: EESC2020, MAEG1020 Major Elective(s):	6	18
	2 nd term Major Required/Research Component: CSC3100, DDA4080 Major Elective(s): 1 course from item 2(a)(iii) of the study scheme	6 3	2 nd term 1 GE Elective course	3	2 nd term Major Required: Major Elective(s): 1 course from item 3(b)(i) of the study scheme	3	15
Fourth Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Elective(s): 2 courses from item 2(a)(iii) of the study scheme	6	1 st term		1 st term Major Required: Major Elective(s): 1 course from item 3(b)(i) of the study scheme	3	9
	2 nd term Major Elective(s): 2 courses from item 2(a)(iii) of the study scheme	6	2 nd term 1 GE Elective course	3	2 nd term Major Elective(s): 1 course from item 3(b)(i) of the study scheme	3	12
Total of First Major (including Faculty Package):		57	Total of University Core Requirements:		36	Total of Second Major: 33 126	

[a] Students may apply to study in the Co-operative Education Programme (Co-op@CUHK) (5 units) offered by CUHK in Year 2 or above. Students who study the Co-op programme will take COOP4001, which is a 1-unit course to be taken in each of the Summer Session of Year 3 and Term 1 of Year 4. They will undertake a full-time placement in two specific work terms, during which they are not allowed to register for any other courses except the 1-unit continuous assessment course COOP4001. For students who have to take more than 1 unit of course in the work term, they should provide strong justifications for each additional course for approval by the Co-operative Education Programme Committee and the major programme.

- [b] When students are studying at CUHK, they can take substitute/equivalent/alternative courses at CUHK to fulfill the requirements of CUHK(SZ).
- [c] Approval has been granted by the Director of the Registry Services for students of the X & Aerospace Science and Earth Informatics Double Major Programme to take 19 units of courses in Term 1 and/or Term 2 of Year 1.
- [d] Students have to take 3 units of courses from item 3(a)(ii) of the study scheme. These courses may be offered in other terms.

(Recommended Course Pattern - Chinese)

修課推介

4. 學生於其常規修業期限內的每學期修課不得少於九學分，亦不得多於十八學分。學生於每一暑期修課不得多於六學分，於每學年修課一概不得多於三十九學分。
5. 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) 中文及英文十五學分；(二) 信息科技一學分；(三) 通識教育十八學分，包括通識教育基礎課程六學分及大學通識（範圍科目）十二學分；及(四) 體育二學分。
6. 有不同專修範圍的課程須為每項專修範圍提供修課推介。

	數據科學與大數據技術（中大（深圳））及航天科學與地球信息學（中大）雙主修課程要求[a]						
	修課推介[b]						
	第一主修（數據科學與大數據技術）	學分	大學核心課程要求	學分	第二主修（航天科學與地球信息學）	學分	學分合共
第一修業學年 （第一學期在中大（深圳）修讀；第二學期在中大修讀；暑期課程在中大（深圳）修讀）	第一學期 學院課程：CSC1001, MAT1001 主修必修科目： 主修選修科目：	6	第一學期 CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	第一學期 主修必修科目：ENGG1120 主修選修科目：	3	17
	第二學期 學院課程：URM2010 主修必修科目：MAT1002 主修選修科目：	3 3	第二學期 ENG1002 一科 GFH1000 或 GFN1000 科目 PED1002	3 3 1	第二學期 主修必修科目：GRMD2104, PHYS1110 or 1111 主修選修科目：	6	19[c]
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP1001[d]	1	1
第二修業學年 （第一學期在中大（深圳）修讀；第二學期及暑期課程	第一學期 主修必修科目：MAT3007, STA2001 主修選修科目：	6	第一學期 ENG2001 一科 GFH1000 或 GFN1000 科目	3 3	第一學期 主修必修科目：GRMD2105 主修選修科目：	3	15
	第二學期 主修必修科目：DDA3020,	6	第二學期 ENG2002S	3 3	第二學期 主修必修科目：	3	18

在中大修讀)	STA2002 主修選修科目：從修讀辦法 2(a)(iii)項中選修一科	3	一科通識教育科目		主修選修科目：從修讀辦法 3(b)(i)項中選修一科				
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP2001[d]	2	2		
第三修業學年 (第一學期在 中大修讀；第 二學期在中大 (深圳)修 讀)	第一學期 主修必修科目： 主修選修科目：從修讀辦法 2(a)(iii)項中選修三科	9	第一學期 一科通識教育科目	3	第一學期 主修必修科目：EESC2020, MAEG1020 主修選修科目：	6	18		
	第二學期 主修選修/總結科目：CSC3100, DDA4080 主修選修科目：從修讀辦法 2(a)(iii)項中選修一科	6 3	第二學期 一科通識教育科目	3	第二學期 主修必修科目： 主修選修科目：從修讀辦法 3(b)(i)項中選修一科	3	15		
第四修業學年 (第一學期在 中大修讀；第 二學期在中大 (深圳)修 讀)	第一學期 主修選修科目：從修讀辦法 2(a)(iii)項中選修兩科	6	第一學期		第一學期 主修必修科目： 主修選修科目：從修讀辦法 3(b)(i)項中選修一科	3	9		
	第二學期 主修選修科目：從修讀辦法 2(a)(iii)項中選修兩科	6	第二學期 一科通識教育科目	3	第二學期 主修必修科目： 主修選修科目：從修讀辦法 3(b)(i)項中選修一科	3	12		
第一主修共(包括學院課程)：		57	大學核心課程要求共：		36	第二主修共：		33	126

[a] 於第二或以上修業學年，學生可選修 5 學分之『在學・在職計劃』。選修『在學・在職計劃』的學生須於第三修業學年暑期及第四修業學年第一學期各修讀一學分的 COOP4001。學生將於兩個指定學期做全職工作，期間除一學分的評核科目 COOP4001 外，將不能報讀其他科目。學生如欲於工作學期修讀多於一學分，須向『在學・在職計劃』委員會及主修課程申請，並為每科額外申請的科目提供正當及有力的理由。

[b] 學生在中大修課時，可在中大修讀替代／相等／其他指定科目以符合中大(深圳)的要求。

[c] 教務處處長已核准 X 及 航天科學與地球信息學雙主修課程之學生於第一修業學年的第一學期及／或第二學期各修課 19 學分。

[d] 學生須從修課推介第 3(a)(ii)項所列科目中選修三學分。這些科目或於其他學期開設。

(Recommended Course Pattern - English)

Recommended Course Pattern

1. A student shall take at least 9 units and no more than 18 units of courses in any term within the normative study period. A student shall take no more than 6 units of courses in each summer session, and no student shall be allowed to take more than 39 units in an academic year.
2. Sufficient units should be allowed in each term for students to fulfill the University Core Requirements, which include: (i) 15 units of Chinese and English; (ii) 1 unit of IT; (iii) 18 units of General Education, including 6 units of foundation GE courses, 12 units of GE (area courses); and (iv) 2 units of Physical Education.
3. Programmes with different streams/concentrations are required to provide the recommended pattern for each stream/concentration.

Major Programme Requirement of <u>Urban Management (CUHK(SZ)) & Aerospace Science and Earth Informatics (CUHK)</u>[a]							
Recommended Course Pattern[b]							
	First Major (Urban Management)	Units	University Core Requirements	Units	Second Major (Aerospace Science and Earth Informatics)	Units	Total Units
First Year of Attendance (1st term at CUHK(SZ); 2nd term at CUHK; Summer Session at CUHK(SZ))	1 st term Faculty Package: CSC1001, MAT1001 Major Required: Major Elective(s):	6	1 st term CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	1 st term Major Required: ENGG1120 Major Elective(s):	3	17
	2 nd term Faculty Package: URM2010 Major Required: URM2020 Major Elective(s):	3 3	2 nd term ENG1002 GFH1000 or GFN1000 PED1002	3 3 1	2 nd term Major Required: GRMD2104, PHYS1110 or 1111 Major Elective(s):	6	19[c]
	Summer Session		Summer Session		Summer Session Major Required: COOP1001[d]	1	1
Second Year of Attendance (1st term at CUHK(SZ); 2nd term and	1 st term Major Required: URM3030, 4030, 4010 Major Elective(s):	9	1 st term ENG2001 GFH1000 or GFN1000	3 3	1 st term Major Required: GRMD2105 Major Elective(s):	3	18
	2 nd term Major Required: URM3020 Major Elective(s): 2 courses from item 2(b)(iii) of the study scheme	3 6	2 nd term ENG2002H 1 GE Elective course	3 3	2 nd term Major Required: Major Elective(s): 1 course from item 3(b)(ii) of the study scheme	3	18

Summer Session at CUHK))	Summer Session		Summer Session		Summer Session Major Required: COOP2001[d]	2	2
Third Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: URM2030, 3010 Major Elective(s):	6	1 st term 1 GE Elective course	3	1 st term Major Required: MAEG1020, EESC2020 Major Elective(s):	6	15
	2 nd term Major Required: URM4020, 4150 Major Elective(s): 1 course from item 2(b)(iii) of the study scheme	6 3	2 nd term 1 GE Elective course	3	2 nd term Major Required: Major Elective(s): 1 course from item 3(b)(ii) of the study scheme	3	15
Fourth Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: URM3040 Major Elective(s): 1 course from item 2(b)(iii) of the study scheme	3 3	1 st term		1 st term Major Required: Major Elective(s): 1 course from item 3(b)(ii) of the study scheme	3	9
	2 nd term Major Required/Research Component: URM4050 Major Elective(s): 1 course from item 2(b)(iii) of the study scheme	3 3	2 nd term 1 GE Elective course	3	2 nd term Major Elective(s): 1 course from item 3(b)(ii) of the study scheme	3	12
Total of First Major (including Faculty Package):	57		Total of University Core Requirements:	36	Total of Second Major:	33	126

[a] Students may apply to study in the Co-operative Education Programme (Co-op@CUHK) (5 units) offered by CUHK in Year 2 or above. Students who study the Co-op programme will take COOP4001, which is a 1-unit course to be taken in each of the Summer Session of Year 3 and Term 1 of Year 4. They will undertake a full-time placement in two specific work terms, during which they are not allowed to register for any other courses except the 1-unit continuous assessment course COOP4001. For students who have to take more than 1 unit of course in the work term, they should provide strong justifications for each additional course for approval by the Co-operative Education Programme Committee and the major programme.

[b] When students are studying at CUHK, they can take substitute/equivalent/alternative courses at CUHK to fulfill the requirements of CUHK(SZ).

[c] Approval has been granted by the Director of the Registry Services for students of the X & Aerospace Science and Earth Informatics Double Major Programme to take 19 units of courses in Term 1 and/or Term 2 of Year 1.

[d] Students have to take 3 units of courses from item 3(a)(ii) of the study scheme. These courses may be offered in other terms.

(Recommended Course Pattern - Chinese)

修課推介

1. 學生於其常規修業期限內的每學期修課不得少於九學分，亦不得多於十八學分。學生於每一暑期修課不得多於六學分，於每學年修課一概不得多於三十九學分。
2. 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）中文及英文十五學分；（二）信息科技一學分；（三）通識教育十八學分，包括通識教育基礎課程六學分及大學通識（範圍科目）十二學分；及（四）體育二學分。
3. 有不同專修範圍的課程須為每項專修範圍提供修課推介。

城市管理（中大（深圳））及航天科學與地球信息學（中大）雙主修課程要求[a]**修課推介[b]**

	第一主修（城市管理）	學分	大學核心課程要求	學分	第二主修（航天科學與地球信息學）	學分	學分合共
第一修業學年 (第一學期在中大（深圳）修讀；第二學期在中大修讀；暑期課程在中大（深圳）修讀)	第一學期 學院課程：CSC1001, MAT1001 主修必修科目： 主修選修科目：	6	第一學期 CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	第一學期 主修必修科目：ENGG1120 主修選修科目：	3	17
	第二學期 學院課程：URM2010 主修必修科目：URM2020 主修選修科目：	3 3	第二學期 ENG1002 GFH1000 或 GFN1000 PED1002	3 3 1	第二學期 主修必修科目：GRMD2104, PHYS1110 or 1111 主修選修科目：	6	19[c]
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP1001[d]	1	1
第二修業學年 (第一學期在中大（深圳）)	第一學期 主修必修科目：URM3030, 4030, 4010 主修選修科目：	9	第一學期 ENG2001 GFH1000 或 GFN1000	3 3	第一學期 主修必修科目：GRMD2105 主修選修科目：	3	18

修讀；第二學期及暑期課程在中大修讀)	第二學期 主修必修科目：URM3020 主修選修科目：從修讀辦法2(b)(iii)項中選修兩科	3 6	第二學期 ENG2002H 一科通識教育選修科目	3 3	第二學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(ii)項中選修一科	3	18
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP2001[d]	2	2
第三修業學年 (第一學期在中大修讀；第二學期在中大(深圳)修讀)	第一學期 主修必修科目：URM2030, 3010 主修選修科目：	6	第一學期 一科通識教育選修科目	3	第一學期 主修必修科目：MAEG1020, EESC2020 主修選修科目：	6	15
	第二學期 主修必修科目：URM4020, 4150 主修選修科目：從修讀辦法2(b)(iii)項中選修一科	6 3	第二學期 一科通識教育選修科目	3	第二學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(ii)項中選修一科	3	15
第四修業學年 (第一學期在中大修讀；第二學期在中大(深圳)修讀)	第一學期 主修必修科目：URM3040 主修選修科目：從修讀辦法2(b)(iii)項中選修一科	3 3	第一學期		第一學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(ii)項中選修一科	3	9
	第二學期 主修必修科目 / 總結科目：URM4050 主修選修科目：從修讀辦法2(b)(iii)項中選修一科	3 3	第二學期 一科通識教育選修科目	3	第二學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(ii)項中選修一科	3	12
第一主修共 (包括學院課程)：		57	大學核心課程要求共：	36	第二主修共：	33	126

[a] 於第二或以上修業學年，學生可選修 5 學分之『在學・在職計劃』。選修『在學・在職計劃』的學生須於第三修業學年暑期及第四修業學年第一學期各修讀一學分的 COOP4001。學生將於兩個指定學期做全職工作，期間除一學分的評核科目 COOP4001 外，將不能報讀其他科目。學生如欲於工作學期修讀多於一學分，須向『在學・在職計劃』委員會及主修課程申請，並為每科額外申請的科目提供正當及有力的理由。

[b] 學生在中大修課時，可在中大修讀替代/相等/其他指定科目以符合中大(深圳)的要求。

[c] 教務處處長已核准 X 及 航天科學與地球信息學雙主修課程之學生於第一修業學年的第一學期及/或第二學期各修課 19 學分。

[d] 學生須從修課推介第 3(a)(ii)項所列科目中選修三學分。這些科目或於其他學期開設。

(Recommended Course Pattern - English)

Recommended Course Pattern

1. A student shall take at least 9 units and no more than 18 units of courses in any term within the normative study period. A student shall take no more than 6 units of courses in each summer session, and no student shall be allowed to take more than 39 units in an academic year.
2. Sufficient units should be allowed in each term for students to fulfill the University Core Requirements, which include: (i) 15 units of Chinese and English; (ii) 1 unit of IT; (iii) 18 units of General Education, including 6 units of foundation GE courses, 12 units of GE (area courses); and (iv) 2 units of Physical Education.
3. Programmes with different streams/concentrations are required to provide the recommended pattern for each stream/concentration.

Major Programme Requirement of <u>Electrical and Computer Engineering (CUHK(SZ)) & Aerospace Science and Earth Informatics (CUHK)</u>[a]							
Recommended Course Pattern[b]							
	First Major (Electrical and Computer Engineering)	Units	University Core Requirements	Units	Second Major (Aerospace Science and Earth Informatics)	Units	Total Units
First Year of Attendance (1st term at CUHK(SZ); 2nd term at CUHK; Summer Session at CUHK(SZ))	1 st term Faculty Package: CSC1001, MAT1001 Major Required: Major Elective(s):	6	1 st term CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	1 st term Major Required: ENGG1120 Major Elective(s):	3	17
	2 nd term Faculty Package: URM2010 Major Required: STA2001 Major Elective(s):	3 3	2 nd term ENG1002 GFH1000 or GFN1000 PED1002	3 3 1	2 nd term Major Required: GRMD2104, PHYS1110 or 1111 Major Elective(s):	6	19[c]
	Summer Session		Summer Session		Summer Session Major Required: COOP1001[d]	1	1
Second Year of Attendance (1st term at CUHK(SZ); 2nd term and	1 st term Major Required: ECE2001, 3001 Major Elective(s):	6	1 st term ENG2001 GFH1000 or GFN1000	3 3	1 st term Major Required: GRMD2105 Major Elective(s): 1 course from item 3(b)(iii) of the study scheme	3 3	18
	2 nd term Major Required: ECE2050, ECE3050 Major Elective(s): 1 course from item	6 3	2 nd term ENG2002S 1 GE Elective course	3 3	2 nd term Major Required: Major Elective(s): 1 course	3	18

Summer Session at CUHK))	2(c)(iii) of the study scheme				from item 3(b)(iii) of the study scheme		
	Summer Session		Summer Session		Summer Session Major Required: COOP2001[d]	2	2
Third Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: Major Elective(s): 3 courses from item 2©(iii) of the study scheme	9	1 st term 1 GE Elective course	3	1 st term Major Required: MAEG1020 Major Elective(s):	3	15
	2 nd term Major Required/Research Component: ERG4902 Major Elective(s): 2 courses from item 2©(iii) of the study scheme	3 6	2 nd term 1 GE Elective course	3	2 nd term Major Required: Major Elective(s): 1 course from item 3(b)(iii) of the study scheme	3	15
Fourth Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: Major Elective(s): 2 courses from item 2©(iii) of the study scheme	6	1 st term		1 st term Major Required: EESC2020 Major Elective(s):	3	9
	2 nd term Major Required/Research Component: Major Elective(s): 2 courses from item 2©(iii) of the study scheme	6	2 nd term 1 GE Elective course	3	2 nd term Major Elective(s): 1 course from item 3(b)(iii) of the study scheme	3	12
Total of First Major (including Faculty Package):	57		Total of University Core Requirements:	36	Total of Second Major:	33	126

[a] Students may apply to study in the Co-operative Education Programme (Co-op@CUHK) (5 units) offered by CUHK in Year 2 or above. Students who study the Co-op programme will take COOP4001, which is a 1-unit course to be taken in each of the Summer Session of Year 3 and Term 1 of Year 4. They will undertake a full-time placement in two specific work terms, during which they are not allowed to register for any other courses except the 1-unit continuous assessment course COOP4001. For students who have to take more than 1 unit of course in the work term, they should provide strong justifications for each additional course for approval by the Co-operative Education Programme Committee and the major programme.

[b] When students are studying at CUHK, they can take substitute/equivalent/alternative courses at CUHK to fulfill the requirements of CUHK(SZ).

- [c] Approval has been granted by the Director of the Registry Services for students of the X & Aerospace Science and Earth Informatics Double Major Programme to take 19 units of courses in Term 1 and/or Term 2 of Year 1.
- [d] Students have to take 3 units of courses from item 3(a)(ii) of the study scheme. These courses may be offered in other terms.

(Recommended Course Pattern - Chinese)

修課推介

1. 學生於其常規修業期限內的每學期修課不得少於九學分，亦不得多於十八學分。學生於每一暑期修課不得多於六學分，於每學年修課一概不得多於三十九學分。
2. 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）中文及英文十五學分；（二）信息科技一學分；（三）通識教育十八學分，包括通識教育基礎課程六學分及大學通識（範圍科目）十二學分；及（四）體育二學分。
3. 有不同專修範圍的課程須為每項專修範圍提供修課推介。

	電子與計算機工程（中大（深圳））及航天科學與地球信息學（中大）雙主修課程要求[a]						
	修課推介[b]						
	第一主修（電子與計算機工程）	學分	大學核心課程要求	學分	第二主修（航天科學與地球信息學）	學分	學分合共
第一修業學年 （第一學期在中大（深圳）修讀；第二學期在中大修讀；暑期課程在中大（深圳）修讀）	第一學期 學院課程：CSC1001, MAT1001 主修必修科目： 主修選修科目：	6	第一學期 CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	第一學期 主修必修科目：ENGG1120 主修選修科目：	3	17
	第二學期 學院課程：URM2010 主修必修科目：STA2001 主修選修科目：	3 3	第二學期 ENG1002 一科 GFH1000 或 GFN1000 科目 PED1002	3 3 1	第二學期 主修必修科目：GRMD2104, PHYS1110 or 1111 主修選修科目：	6	19[c]
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP1001[d]	1	1
第二修業學年 （第一學期在中大（深圳）	第一學期 主修必修科目：ECE2001, 3001 主修選修科目：	6	第一學期 ENG2001 一科 GFH1000 或 GFN1000 科目	3 3	第一學期 主修必修科目：GRMD2105 主修選修科目：從修讀辦法 3(b)(iii)項中選修一科	3 3	18

修讀；第二學期及暑期課程在中大修讀)	第二學期 主修必修科目：ECE2050, ECE3050 主修選修科目：從修讀辦法2(c)(iii)項中選修一科	6 3	第二學期 ENG2002S 一科通識教育科目	3 3	第二學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(iii)項中選修一科	3	18
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP2001[d]	2	2
第三修業學年 (第一學期在中大修讀；第二學期在中大(深圳)修讀)	第一學期 主修必修科目： 主修選修科目：從修讀辦法2(c)(iii)項中選修三科	9	第一學期 一科通識教育科目	3	第一學期 主修必修科目：MAEG1020 主修選修科目：	3	15
	第二學期 主修必修科目／總結科目： ERG4902 主修選修科目：從修讀辦法2(c)(iii)項中選修兩科	3 6	第二學期 一科通識教育科目	3	第二學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(iii)項中選修一科	3	15
第四修業學年 (第一學期在中大修讀；第二學期在中大(深圳)修讀)	第一學期 主修必修科目： 主修選修科目：從修讀辦法2(c)(iii)項中選修兩科	6	第一學期		第一學期 主修必修科目：EESC2020 主修選修科目：	3	9
	第二學期 主修必修科目／總結科目： 主修選修科目：從修讀辦法2(c)(iii)項中選修兩科	6	第二學期 一科通識教育科目	3	第二學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(iii)項中選修一科	3	12
第一主修共(包括學院課程)：		57	大學核心課程要求共：	36	第二主修共：	33	126

[a] 於第二或以上修業學年，學生可選修 5 學分之『在學・在職計劃』。選修『在學・在職計劃』的學生須於第三修業學年暑期及第四修業學年第一學期各修讀一學分的 COOP4001。學生將於兩個指定學期做全職工作，期間除一學分的評核科目 COOP4001 外，將不能報讀其他科目。學生如欲於工作學期修讀多於一學分，須向『在學・在職計劃』委員會及主修課程申請，並為每科額外申請的科目提供正當及有力的理由。

- [b] 學生在中大修課時，可在中大修讀替代／相等／其他指定科目以符合中大（深圳）的要求。
- [c] 教務處處長已核准 X 及 航天科學與地球信息學雙主修課程之學生於第一修業學年的第一學期及／或第二學期各修課 19 學分。
- [d] 學生須從修課推介第 3(a)(ii)項所列科目中選修三學分。這些科目或於其他學期開設。

(Recommended Course Pattern - English)

Recommended Course Pattern

1. A student shall take at least 9 units and no more than 18 units of courses in any term within the normative study period. A student shall take no more than 6 units of courses in each summer session, and no student shall be allowed to take more than 39 units in an academic year.
2. Sufficient units should be allowed in each term for students to fulfill the University Core Requirements, which include: (i) 15 units of Chinese and English; (ii) 1 unit of IT; (iii) 18 units of General Education, including 6 units of foundation GE courses, 12 units of GE (area courses); and (iv) 2 units of Physical Education.
3. Programmes with different streams/concentrations are required to provide the recommended pattern for each stream/concentration.

Major Programme Requirement of <u>New Energy Science and Engineering (CUHK(SZ)) & Aerospace Science and Earth Informatics (CUHK)</u>[a]							
Recommended Course Pattern[b]							
	First Major (New Energy Science and Engineering)	Units	University Core Requirements	Units	Second Major (Aerospace Science and Earth Informatics)	Units	Total Units
First Year of Attendance (1st term at CUHK(SZ); 2nd term at CUHK; Summer Session at CUHK(SZ))	1 st term Faculty Package: CSC1001, MAT1001 Major Required: Major Elective(s):	6	1 st term CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	1 st term Major Required: ENGG1120 Major Elective(s):	3	17
	2 nd term Faculty Package: URM2010 Major Required: STA2002 Major Elective(s):	3 3	2 nd term ENG1002 GFH1000 or GFN1000 PED1002	3 3 1	2 nd term Major Required: GRMD2104, PHYS1110 or 1111 Major Elective(s):	6	19[c]
	Summer Session		Summer Session		Summer Session Major Required: COOP1001[d]	1	1
Second Year of Attendance (1st term at	1 st term Major Required: ECE2001, ENE3050 Major Elective(s):	6	1 st term ENG2001 GFH1000 or GFN1000	3 3	1 st term Major Required: GRMD2105 Major Elective(s): 1 course from item 3(b)(iv) of the study scheme	3 3	18

CUHK(SZ); 2nd term and Summer Session at CUHK))	2 nd term Major Required: ENE3004, 3005 Major Elective(s): 1 course from item 2(d)(iii) of the study scheme	6 3	2 nd term ENG2002S 1 GE Elective course	3 3	2 nd term Major Required: Major Elective(s): 1 course from item 3(b)(iv) of the study scheme	3	18
	Summer Session		Summer Session		Summer Session Major Required: COOP2001[d]	2	2
Third Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: Major Elective(s): 3 courses from item 2(d)(iii) of the study scheme	9	1 st term 1 GE Elective course	3	1 st term Major Required: MAEG1020 Major Elective(s):	3	15
	2 nd term Major Required /Research Component: ERG4902 Major Elective(s):2 courses from item 2(d)(iii) of the study scheme	3 6	2 nd term 1 GE Elective course	3	2 nd term Major Required: Major Elective(s): 1 course from item 3(b)(iv) of the study scheme	3	15
Fourth Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: Major Elective(s): 2 courses from item 2(d)(iii) of the study scheme	6	1 st term		1 st term Major Required: EESC2020 Major Elective(s):	3	9
	2 nd term Major Required/Research Component: Major Elective(s): 2 courses from item 2(d)(iii) of the study scheme	6	2 nd term 1 GE Elective course	3	2 nd term Major Elective(s): 1 course from item 3(b)(iv) of the study scheme	3	12
Total of First Major (including Faculty Package):	57		Total of University Core Requirements:	36	Total of Second Major:	33	126

[a] Students may apply to study in the Co-operative Education Programme (Co-op@CUHK) (5 units) offered by CUHK in Year 2 or above. Students who study the Co-op programme will take COOP4001, which is a 1-unit course to be taken in each of the Summer Session of Year 3 and Term 1 of Year 4. They will undertake a full-time placement in two specific work terms, during which they are not allowed to register for any other courses except the 1-unit continuous assessment course COOP4001. For students who have to take more than 1 unit of course in the work term, they should provide strong justifications for each additional course for approval by the Co-operative Education Programme Committee and the major programme.

[b] When students are studying at CUHK, they can take substitute/equivalent/alternative courses at CUHK to fulfill the requirements of CUHK(SZ).

[c] Approval has been granted by the Director of the Registry Services for students of the X & Aerospace Science and Earth Informatics Double Major Programme to take 19 units of courses in Term 1 and/or Term 2 of Year 1.

[d] Students have to take 3 units of courses from item 3(a)(ii) of the study scheme. These courses may be offered in other terms.

(Recommended Course Pattern - Chinese)

修課推介

1. 學生於其常規修業期限內的每學期修課不得少於九學分，亦不得多於十八學分。學生於每一暑期修課不得多於六學分，於每學年修課一概不得多於三十九學分。
2. 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) 中文及英文十五學分；(二) 信息科技一學分；(三) 通識教育十八學分，包括通識教育基礎課程六學分及大學通識（範圍科目）十二學分；及(四) 體育二學分。
3. 有不同專修範圍的課程須為每項專修範圍提供修課推介。

	新能源科學與工程（中大（深圳））及航天科學與地球信息學（中大）雙主修課程要求[a]						
	修課推介[b]						
	第一主修（新能源科學與工程）	學分	大學核心課程要求	學分	第二主修（航天科學與地球信息學）	學分	學分合共
第一修業學年 (第一學期在中大（深圳）修讀；第二學期在中大修讀；暑期課程在中大（深圳）修讀)	第一學期 學院課程：CSC1001, MAT1001 主修必修科目： 主修選修科目：	6	第一學期 CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	第一學期 主修必修科目：ENGG1120 主修選修科目：	3	17
	第二學期 學院課程：URM2010 主修必修科目：STA2002 主修選修科目：	3 3	第二學期 ENG1002 一科 GFH1000 或 GFN1000 科目 PED1002	3 3 1	第二學期 主修必修科目：GRMD2104, PHYS1110 or 1111 主修選修科目：	6	19[c]
	暑期課程		暑期課程		暑期課程 主修必修科目：COOP1001[d]	1	1
第二修業學年 (第一學期在中大（深圳）修讀；第二學期及暑期課程在中大修讀)	第一學期 主修必修科目：ECE2001, ENE3050 主修選修科目：	6	第一學期 ENG2001 一科 GFH1000 或 GFN1000 科目	3 3	第一學期 主修必修科目：GRMD2105 主修選修科目：從修讀辦法 3(b)(iv)項中選修一科	3 3	18
	第二學期 主修必修科目：ENE3004, 3005 主修選修科目：從修讀辦法 2(d)(iii)項中選修一科	6 3	第二學期 ENG2002S 一科通識教育科目	3 3	第二學期 主修必修科目： 主修選修科目：從修讀辦法 3(b)(iv)項中選修一科	3	18

	暑期課程		暑期課程		暑期課程 主修必修科目：COOP2001[d]	2	2
第三修業學年 (第一學期在中大修讀；第二學期在中大(深圳)修讀)	第一學期 主修必修科目： 主修選修科目：從修讀辦法2(d)(iii)項中選修三科	9	第一學期 一科通識教育科目	3	第一學期 主修必修科目：MAEG1020 主修選修科目：	3	15
	第二學期 主修必修科目／總結科目：ERG4902 主修選修科目：從修讀辦法2(d)(iii)項中選修兩科	3 6	第二學期 一科通識教育科目	3	第二學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(iv)項中選修一科	3	15
第四修業學年 (第一學期在中大修讀；第二學期在中大(深圳)修讀)	第一學期 主修必修科目： 主修選修科目：從修讀辦法2(d)(iii)項中選修兩科	6	第一學期		第一學期 主修必修科目：EESC2020 主修選修科目：	3	9
	第二學期 主修必修科目／總結科目： 主修選修科目：從修讀辦法2(d)(iii)項中選修兩科	6	第二學期 一科通識教育科目	3	第二學期 主修必修科目： 主修選修科目：從修讀辦法3(b)(iv)項中選修一科	3	12
第一主修共(包括學院課程)：		57	大學核心課程要求共：	36	第二主修共：	33	126

[a] 於第二或以上修業學年，學生可選修 5 學分之『在學・在職計劃』。選修『在學・在職計劃』的學生須於第三修業學年暑期及第四修業學年第一學期各修讀一學分的 COOP4001。學生將於兩個指定學期做全職工作，期間除一學分的評核科目 COOP4001 外，將不能報讀其他科目。學生如欲於工作學期修讀多於一學分，須向『在學・在職計劃』委員會及主修課程申請，並為每科額外申請的科目提供正當及有力的理由。

[b] 學生在中大修課時，可在中大修讀替代／相等／其他指定科目以符合中大(深圳)的要求。

[c] 教務處處長已核准 X 及 航天科學與地球信息學雙主修課程之學生於第一修業學年的第一學期及／或第二學期各修課 19 學分。

[d] 學生須從修課推介第 3(a)(ii)項所列科目中選修三學分。這些科目或於其他學期開設。

(Recommended Course Pattern - English)

Recommended Course Pattern

1. A student shall take at least 9 units and no more than 18 units of courses in any term within the normative study period. A student shall take no more than 6 units of courses in each summer session, and no student shall be allowed to take more than 39 units in an academic year.
2. Sufficient units should be allowed in each term for students to fulfill the University Core Requirements, which include: (i) 15 units of Chinese and English; (ii) 1 unit of IT; (iii) 18 units of General Education, including 6 units of foundation GE courses, 12 units of GE (area courses); and (iv) 2 units of Physical Education.
3. Programmes with different streams/concentrations are required to provide the recommended pattern for each stream/concentration.

Major Programme Requirement of <u>Physics (CUHK(SZ)) & Aerospace Science and Earth Informatics (CUHK)</u>[a]							
Recommended Course Pattern[b]							
	First Major (Physics)	Units	University Core Requirements	Units	Second Major (Aerospace Science and Earth Informatics)	Units	Total Units
First Year of Attendance (1st term at CUHK(SZ); 2nd term at CUHK; Summer Session at CUHK(SZ))	1 st term Faculty Package: MAT1001, URM2010 Major Required: Major Elective(s):	6	1 st term CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	1 st term Major Required: GRMD2105 Major Elective(s):	3	17
	2 nd term Faculty Package: Major Required: MAT1002, STAT2001 Major Elective(s):	6	2 nd term ENG1002 GFH1000 or GFN1000 PED1002	3 3 1	2 nd term Major Required: ENGG1120, PHYS1110 or 1111 Major Elective(s):	6	19[c]
	Summer Session		Summer Session		Summer Session Major Required: COOP1001[d]	1	1
Second Year of Attendance (1st term at CUHK(SZ); 2nd term and Summer)	1 st term Faculty Package: CSC1001 Major Required: PHY1010, 2610, 1910 Major Elective(s):	3 7	1 st term ENG2001 GFH1000 or GFN1000	3 3	1 st term Major Required: Major Elective(s):		16
	2 nd term Major Required: PHY2002, 2020 Major Elective(s):	6	2 nd term ENG2002S 1 GE Elective course	3 3	2 nd term Major Required: GRMD2104 Major Elective(s): 1 course from item 3(b)(v) of the study	3 3	18

Session at CUHK))					scheme		
	Summer Session		Summer Session		Summer Session Major Required: COOP2001[d]	2	2
Third Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required: PHY3401, 3002 or 3310 Major Elective(s):	6	1 st term 1 GE Elective course	3	1 st term Major Required: EESC2020 Major Elective(s):	3	12
	2 nd term Major Required: PHY2650, 3110 Major Elective(s): 1 course from item 2(e)(iii) of the study scheme	5 3	2 nd term 1 GE Elective course	3	2 nd term Major Required: Major Elective(s): 2 courses from item 3(b)(v) of the study scheme	6	17
Fourth Year of Attendance (1st term at CUHK and 2nd term at CUHK(SZ))	1 st term Major Required /Research Component: PHY4270 Major Elective(s): 2 courses from item 2(e)(iii) of the study scheme	3 6	1 st term		1 st term Major Required: MAEG1020 Major Elective(s):	3	12
	2 nd term Major Required/Research Component: PHY4280 Major Elective(s): 1 course from item 2(e)(iii) of the study scheme	3 3	2 nd term 1 GE Elective course	3	2 nd term Major Elective(s): 1 course from item 3(b)(v) of the study scheme	3	12
Total of First Major (including Faculty Package):	57		Total of University Core Requirements:	36	Total of Second Major:	33	126

[a] Students may apply to study in the Co-operative Education Programme (Co-op@CUHK) (5 units) offered by CUHK in Year 2 or above. Students who study the Co-op programme will take COOP4001, which is a 1-unit course to be taken in each of the Summer Session of Year 3 and Term 1 of Year 4. They will undertake a full-time placement in two specific work terms, during which they are not allowed to register for any other courses except the 1-unit continuous assessment course COOP4001. For students who have to take more than 1 unit of course in the work term, they should provide strong justifications for each additional course for approval by the Co-operative Education Programme Committee and the major programme.

[b] When students are studying at CUHK, they can take substitute/equivalent/alternative courses at CUHK to fulfill the requirements of CUHK(SZ).

[c] Approval has been granted by the Director of the Registry Services for students of the X & Aerospace Science and Earth Informatics Double Major Programme to take 19 units of courses in Term 1 and/or Term 2 of Year 1.

[d] Students have to take 3 units of courses from item 3(a)(ii) of the study scheme. These courses may be offered in other terms.

(Recommended Course Pattern - Chinese)

修課推介

1. 學生於其常規修業期限內的每學期修課不得少於九學分，亦不得多於十八學分。學生於每一暑期修課不得多於六學分，於每學年修課一概不得多於三十九學分。
2. 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）中文及英文十五學分；（二）信息科技一學分；（三）通識教育十八學分，包括通識教育基礎課程六學分及大學通識（範圍科目）十二學分；及（四）體育二學分。
3. 有不同專修範圍的課程須為每項專修範圍提供修課推介。

物理學（中大（深圳））及航天科學與地球信息學（中大）雙主修課程要求[a]**修課推介[b]**

	物理學（中大（深圳））及航天科學與地球信息學（中大）雙主修課程要求[a]						
	第一主修（物理學）	學分	大學核心課程要求	學分	第二主修（航天科學與地球信息學）	學分	學分合共
第一修業學年 （第一學期在中大（深圳）修讀；第二學期在中大修讀；暑期課程在中大（深圳）修讀）	第一學期 學院課程：MAT1001, URM2010 主修必修科目： 主修選修科目：	6	第一學期 CHI1000 ENG1001 ITE1000 PED1001	3 3 1 1	第一學期 主修必修科目： GRMD2105 主修選修科目：	3	17
	第二學期 學院課程： 主修必修科目：MAT1002, STAT2001 主修選修科目：	6	第二學期 ENG1002 一科 GFH1000 或 GFN1000 科目 PED1002	3 3 1	第二學期 主修必修科目：ENGG1120, PHYS1110 or 1111 主修選修科目：	6	19[c]
	暑期課程		暑期課程		暑期課程 主修必修科目： COOP1001[d]	1	1

第二修業學年 (第一學期在中大(深圳)修讀; 第二學期及暑期課程在中大修讀)	第一學期 學院課程: CSC1001 主修必修科目: PHY1010, 2610, 1910 主修選修科目:	3 7	第一學期 ENG2001 一科 GFH1000 或 GFN1000 科目	3 3	第一學期 主修必修科目: 主修選修科目:		16
	第二學期 主修必修科目: PHY2002, 2020 主修選修科目:	6	第二學期 ENG2002S 一科通識教育科目	3 3	第二學期 主修必修科目: GRMD2104 主修選修科目: 從修讀辦法 3(b)(v)項中選修一科	3 3	18
	暑期課程		暑期課程		暑期課程 主修必修科目: COOP2001[d]	2	2
第三修業學年 (第一學期在中大修讀; 第二學期在中大(深圳)修讀)	第一學期 主修必修科目: PHY3401, 3002 or 3310 主修選修科目:	6	第一學期 一科通識教育科目	3	第一學期 主修必修科目: EESC2020 主修選修科目:	3	12
	第二學期 主修必修科目: PHY2650, 3110 主修選修科目: 從修讀辦法 2(e)(iii)項中選修一科	5 3	第二學期 一科通識教育科目	3	第二學期 主修必修科目: 主修選修科目: 從修讀辦法 3(b)(v)項中選修兩科	6	17
第四修業學年 (第一學期在中大修讀; 第二學期在中大(深圳)修讀)	第一學期 主修必修科目 / 總結科目: PHY4270 主修選修科目: 從修讀辦法 2(e)(iii)項中選修一科	3 6	第一學期		第一學期 主修必修科目: MAEG1020 主修選修科目:	3	12
	第二學期 主修必修科目 / 總結科目: PHY4280 主修選修科目: 從修讀辦法	3 3	第二學期 一科通識教育科目	3	第二學期 主修必修科目: 主修選修科目: 從修讀辦法 3(b)(v)項中選修一科	3	12

	2(e)(iii)項中選修一科					
	第一主修共（包括學院課程）：	57	大學核心課程要求共：	36	第二主修共：	33
						126

[a] 於第二或以上修業學年，學生可選修 5 學分之『在學・在職計劃』。選修『在學・在職計劃』的學生須於第三修業學年暑期及第四修業學年第一學期各修讀一學分的 COOP4001。學生將於兩個指定學期做全職工作，期間除一學分的評核科目 COOP4001 外，將不能報讀其他科目。學生如欲於工作學期修讀多於一學分，須向『在學・在職計劃』委員會及主修課程申請，並為每科額外申請的科目提供正當及有力的理由。

[b] 學生在中大修課時，可在中大修讀替代／相等／其他指定科目以符合中大（深圳）的要求。

[c] 教務處處長已核准 X 及 航天科學與地球信息學雙主修課程之學生於第一修業學年的第一學期及／或第二學期各修課 19 學分。

[d] 學生須從修課推介第 3(a)(ii)項所列科目中選修三學分。這些科目或於其他學期開設。

Course List (offered by CUHK(SZ))

Course Code	Course Title (English)	Course Title (Chinese)	Unit(s)
CHM1001	General Chemistry	普通化學	3
CSC1001	Introduction to Computer Science: Programming Methodology	計算機科學導論：程序設計方法	3
CSC1002	Computational Laboratory	計算機實驗	1
CSC2003	Introduction to Java Programming	Java 程序設計導論	3
CSC3002	C/C++ Programming	C/C++程序設計	3
CSC3100	Data Structures	數據結構	3
CSC3150	Operating System	操作系統	3
CSC3170	Database System	數據庫系統	3
CSC3180	Fundamentals of Artificial Intelligence	人工智能之基本原理	3
CSC4120	Design and Analysis of Algorithms	算法設計及分析	3
CSC4160	Cloud Computing	雲端計算	3
DDA3003	Visual Analytics	可視化分析	3
DDA3005	Numerical Methods	數值方法	3
DDA3020	Machine Learning	機器學習	3
DDA4002	Stochastic Simulation	隨機模擬	3
DDA4080	Final Year Project I	畢業設計（一）	3
DDA4107	Practical High-Performance Computing	應用高性能計算	3
DDA4210	Advanced Machine Learning	高等機器學習	3
DDA4220	Deep Learning and Applications	深度學習與應用	3
DDA4240	Data Privacy and Ethics	數據隱私和道德	3
DDA4250	Mathematical Introduction to Deep Learning	深度學習中的數學	3
DDA4260	Networked Life	數據科學之應用：生活中的網絡	3
ECE1810	Electronic Circuit Design Laboratory	電子線路設計實驗	1

ECE2001	Basic Circuit Theory	基本電路理論	3
ECE2050	Digital Logic and Systems	數字邏輯與系統	3
ECE3001	Signal and Systems	信號與系統	3
ECE3050	Principles of Communication Systems	通信系統原理	3
ECE3060	Introduction to Robotics	機械人學概論	3
ECE4010	Machine Intelligence and Applications	機器學習及應用	3
ECE4016	Computer Networks	計算機網絡	3
ECE4300	Systems Design in Human-Computer Interaction	人機交互系統設計	3
ECO2121	Basic Statistics	統計學基礎	3
ECO4001	Environmental Economics and Policy	環境經濟學與政策	3
ENE3002	Energy Science and Engineering Laboratory	能源科學與工程實驗	2
ENE3004	Design of Solar Energy Conversion Systems	太陽能轉換系統設計	3
ENE3005	Electrochemical Energy Conversion	電化學能量轉換	3
ENE3006	Materials for Energy Applications	能源應用材料	3
ENE3050	Electrical Power Systems	電力系統	3
ENE4001	Green Engineering and Environmental Compliance	綠色工程及環境標準	3
ENE4005	Energy Resources and the Environment	能源與環境	3
ENE4007	Energy Economics	能源經濟學	3
ENE4008	Power Electronics	電力電子	3
ENE4011	Smart Grid	智能電網	3
ERG4902	Capstone Project II	畢業設計(二)	3
GLB3060	Global Change and Environmental Sustainability	全球變化與環境可持續性	3
MAT1001	Calculus I	微積分(一)	3
MAT1002	Calculus II	微積分(二)	3
MAT2001	Honours Ordinary Differential Equations	常微分方程榮譽課程	3

MAT2050	Mathematical Analysis	數學分析	3
MAT3007	Optimization	最優化	3
MAT3220	Optimization II	最優化 (二)	3
MAT3280	Probability Theory	概率論	3
MAT3350	Introduction to Information Theory	信息論導論	3
MAT4220	Partial Differential Equations	偏微分方程	3
PHY1010	Principles of Physics II (thermodynamics and EM)	普通物理 (二) (熱學和電磁學)	3
PHY1210	Student Oriented Learning I	學生自主習題討論班 (一)	1
PHY1910	Physics Laboratory I	普通物理實驗 (一)	1
PHY1920	Physics Laboratory II	普通物理實驗 (二)	2
PHY2002	Thermodynamics	熱力學	3
PHY2020	Principles of Physics III (Optics and Modern Physics)	普通物理 (三) (光學和現代物理)	3
PHY2610	Mathematical Methods in Physics I	數學物理方法 (一)	3
PHY2650	Computational Physics I	計算物理 (一)	2
PHY3002	Electrodynamics I	電動力學 (一)	3
PHY3110	Classical Mechanics I	理論力學 (一)	3
PHY3120	Classical Mechanics II	理論力學 (二)	3
PHY3210	Experimental Physics Project Experience I	實驗物理課題 (一)	1
PHY3230	Theoretical Physics Project Experience I	理論物理課題 (一)	1
PHY3240	Computational Physics Project Experience I	計算物理課題 (一)	1
PHY3310	Electromagnetic Theory I	電磁學 (一)	3
PHY3320	Electromagnetic Theory II	電磁學 (二)	3
PHY3410	Quantum Mechanics and its Applications I	量子力學 (一)	3
PHY3420	Quantum Mechanics and its Applications II	量子力學 (二)	3
PHY3650	Computer Simulation of Physical Systems	物理系統的計算機模擬	3

PHY3710	Physics of Materials Science	材料科學物理	3
PHY3810	Modern Optical Physics	現代光學物理	3
PHY3820	Introduction to Astronomy and Astrophysics	天文學和天體物理入門	3
PHY3950	Basic Electronics	電子學基礎	3
PHY3960	Basic Instrumentation	儀器學基礎	3
PHY4001	Solid-State Physics	固體物理學	3
PHY4002	Electrodynamics II	電動力學（二）	3
PHY4240	Seminar I	研討班（一）	1
PHY4270	Senior Project I	畢業課題（一）	3
PHY4280	Senior Project II	畢業課題（二）	3
PHY4510	Statistical Mechanics and its Applications	統計物理及應用	3
PHY4810	Relativity	相對論	2
STA2001	Probability and Statistics I	概率及統計（一）	3
STA2002	Probability and Statistics II	概率及統計（二）	3
STA3001	Linear Models	線性模型	3
STA3005	Statistical Computing	統計計算	3
STA3020	Statistical Inference	統計推斷	3
STA4001	Stochastic Processes	隨機過程	3
STA4002	Multivariate Statistical Analysis	多元統計分析	3
STA4003	Time Series	時間序列	3
STA4020	Statistical Modelling in Financial Markets	金融市場的統計建模	3
URM2010	Cities, Society and Environment	城市、社會與環境	3
URM2020	Urban Economics	城市經濟學	3
URM2030	Statistical Analysis and Application	統計分析及應用	3
URM3010	Urban Sustainability	城市可持續性	3

URM3020	Research Methods for Urban Studies	城市學研究方法	3
URM3030	Urban Environmental Management and Policy	城市環境管理與政策	3
URM3040	Urban and Regional Planning	城市與區域規劃	3
URM3050	Urban Form, Design and Place Making	城市形態、設計與場所營造	3
URM3110	Urban History and Culture	城市歷史與文化學	3
URM3120	Population, Urbanization and Sustainable Development	人口、城市化與可持續性	3
URM3130	Globalization and Cities	全球化與城市	3
URM4010	Smart Cities and Management	智慧城市管理	3
URM4020	Urban Data and Informatics	城市數據與分析學	3
URM4030	Urban Management and Public Policy	城市管理與公共政策	3
URM4040	Urban Management Capstone I	城市管理總結科目（一）	3
URM4050	Urban Management Capstone II	城市管理總結科目（二）	3
URM4110	Urban Security and Risk Management	城市安全與風險管理	3
URM4120	Urban Housing and Land Market	城市住房與土地市場	3
URM4130	Urban Transportation System	城市交通運輸系統	3
URM4140	Regional Development of the Guangdong-Hong Kong-Macao Greater Bay Area	粵港澳大灣區區域發展	3
URM4150	Urban Spatial Analysis and Modeling	城市空間分析與建模	3
URM4160	Special Topics in Urban Studies and Management	城市研究與管理專題	3

Course List (offered by CUHK)

Course Code	Course Title (English)	Course Title (Chinese)	Unit(s)
BCHE2030	Fundamentals of Biochemistry	基礎生物化學	3
BIOL2120	Cell Biology	細胞生物學	3
BIOL2210	Ecology	生態學	3
BIOL2213	Ecology Laboratory	生態學實驗	1
BIOL3410	General Microbiology	普通微生物學	3
BIOL3710	Marine Biology	海洋生物學	3
BIOL4012	Field and Environmental Biology	野外考察及環境生物學	2
BIOL4230	Global Change Biology	全球變化生物學	3
BIOL4260	Conservation Biology	保育生物學	3
BIOL4420	Marine Microbial Ecology	海洋微生物生態學	2
BIOL4510	Hong Kong Flora and Vegetation	香港植物及植被	3
CHEM1072	General Chemistry	基礎化學	3
CHEM1870	Chemistry Laboratory: STEM and Daily Life	化學實驗：STEM 與日常生活	2
COOP1001	Greater Bay Area Field Trip	大灣區考察	1
COOP2001	Asia Field Trip	亞洲考察	2
CSCI3320	Fundamentals of Machine Learning	機器學習之基礎課程	3
EEEN2020	Renewable Energy Technologies	可再生能源技術	3
EEEN2030	Energy and Environmental Economics and Management	能源和環境經濟學及管理	3
EEEN2040	Heating, Ventilation, and Air-Conditioning (HVAC) I	供熱通風與空調（一）	3
EEEN3020	Energy Utilization and Human Behaviour	能源運用與人類行為	3
EEEN3030	Engineering Materials	工程材料	3
EEEN4010	Kinetic Energy Harvesting Devices and Systems	動能量收集裝置與系統	3

EEEN4020	Solar Energy and Photovoltaic Technology	太陽能及光伏技術	3
EEEN4050	Energy Storage Devices and Systems	能源存儲裝置與系統	3
EEEN4060	Energy Distribution	能源分配	3
EEEN4070	Green Building and Sustainable Technologies	綠色建築與可持續發展技術	3
EEEN4998	Final Year Project I	畢業專題研究 (一)	3
EESC1009	Introductory Practical Course in Earth and Environmental Sciences	地球與環境科學基礎實踐	1
EESC2009	Fundamental Earth and Environmental Field Study	地球與環境初級野外考察	1
EESC2010	Solid Earth Dynamics	固體地球動力學	3
EESC2020	Climate System Dynamics	氣候系統動力學	3
EESC2030	Computational Earth and Environmental Sciences	地球系統科學的基礎計算	3
EESC2119	Intermediate Earth and Environmental Field Study-I	進階地球與環境考察-I	3
EESC2129	Intermediate Earth and Environmental Field Study-II	進階地球與環境考察-II	3
EESC2270	Introduction to Environmental Science	環境科學導論	3
EESC2515	Environmental Chemistry	環境化學	3
EESC2517	Environmental Chemistry Laboratory	環境化學實驗	2
EESC2800	Introduction to Environmental Engineering	環境工程導論	3
EESC2909	Environmental Sciences Field Study I	環境科學野外考察 I	1
EESC3020	Analytical Methods for Earth and Environmental Sciences	地球與環境科學的分析方法	3
EESC3100	Structural Geology	構造地質學	3
EESC4119	Advanced Earth and Environmental Field Study-I	高階地球與環境考察 - I	3
EESC3120	Physics of the Earth	地球物理	3
EESC3130	Introduction to Seismic Data Processing	地震數據處理	3
EESC3200	Atmospheric Dynamics	大氣動力學	3
EESC3220	Atmospheric Chemistry	大氣化學	3
EESC3230	Principles of Environmental Protection and Pollution Control	環境保護與污染管制導論	3
EESC3300	Oceanography	海洋學	3

EESC3320	Hydrogeology	水文地質學	3
EESC3330	Biogeochemistry	生物地球化學	3
EESC3415	Environmental Instrumentation Techniques	環境儀器分析技術	3
EESC3417	Environmental Instrumentation Techniques Laboratory	環境儀器分析技術實驗	2
EESC3520	Environmental and Biochemical Toxicology	環境及生化毒理學	3
EESC3522	Environmental and Biochemical Toxicology Laboratory	環境及生化毒理學實驗	2
EESC3600	Ecosystems and Climate	生態系統與氣候	3
EESC3601	Principles of Ecosystems and Climate	生態系統與氣候原理	2
EESC3800	Global Environmental Change	全球環境變化	3
EESC3900	Internship	實習課程	3
EESC4010	Solid and Fluid Mechanics	固體與流體力學	3
EESC4020	Soil Mechanics and Its Applications	土力學與應用	3
EESC4030	Engineering Geology	工程地質學	3
EESC4040	Rock Mechanics and Its Applications	岩石力學及應用	3
EESC4110	Applied Geophysics	應用地球物理學	3
EESC4120	Petrology	岩石學	3
EESC4130	Geomorphology	地貌學	3
EESC4140	Seismology	地震學	3
EESC4150	Volcanoes	火山	3
EESC4160	Marine Geology and Geophysics	海洋地質與地球物理學	3
EESC4180	Earthquake Source Physics	地震震源物理	3
EESC4210	Land-Atmosphere Interactions and Boundary-Layer Meteorology	地氣相互作用及邊界層氣象學	3
EESC4220	Tropical Meteorology	熱帶氣象學	3
EESC4230	Introduction to the Physics and Chemistry of Aerosol	氣溶膠物理與化學概述	3
EESC4240	Air Pollution Science and Engineering	大氣污染科學與工程	3
EESC4250	Advanced Topics in Atmospheric Dynamics	大氣動力學專題討論	3

EESC4260	Urban Climatology	都市氣候學	3
EESC4270	Cloud Dynamics	雲動力學	3
EESC4325	Advanced Environmental Chemistry	高級環境化學	3
EESC4335	Chemical Treatment Processes	化學處理程序	3
EESC4340	Environmental Impact Assessment	環境影響評估	3
EESC4342	Environmental Impact Assessment Laboratory	環境影響評估實驗	2
EESC4350	Environmental Health	環境衛生學	3
EESC4510	Statistical Methods and Data Analysis for Earth and Environmental Sciences	地球與環境科學的統計方法與數據分析	3
EESC4520	Numerical Methods and Modeling for Earth and Environmental Sciences	地球與環境科學的數值方法與模擬	3
EESC4540	Remote Sensing – Principles and Applications	遙感原理與應用	3
EESC4550	Practical Atmospheric Modeling	實用大氣模擬	3
EESC4810	Senior Project I	畢業專題研究（一）	3
EESC4820	Senior Project II	畢業專題研究（二）	3
ELEG2202	Fundamentals of Electric Circuits	基礎電路	3
ELEG3207	Introduction to Power Electronics	電力電子導論	3
ELEG3503	Introduction to Digital Signal Processing	數字信號處理導論	3
ELEG3601	Introduction to Electric Power Systems	電力系統導論	3
ENGG1110	Problem Solving by Programming	程式設計與解難	3
ENGG1120	Linear Algebra for Engineers	線性代數及其工程應用	3
ENGG1130	Multivariable Calculus for Engineers	多元微積分及其工程應用	3
ENGG1310	Engineering Physics: Electromagnetics, Optics and Modern Physics	工程物理: 電磁學、光學及近代物理	3
ENGG2020	Digital Logic and Systems	數位邏輯及數字系統	3
ENGG2030	Signals and Systems	信號與系統	3
ENGG2430	Probability and Statistics for Engineers	概率與統計的工程應用	3
GRMD1401	A World of Diversity	多元世界面面觀	3

GRMD1403	Resources, Society & Environment	資源、社會與環境	3
GRMD2102	Fundamental Statistics for Geographers	地理學統計初階	3
GRMD2104	Remote Sensing of Environment	環境遙感	3
GRMD2105	Introduction to GIS	地理信息系統導論	3
GRMD2111	Field Trip in Geographical Science	地理科學考察	2
GRMD2209	Physical Geology	自然地質學	3
GRMD2221	Weather and Climate	天氣與氣候	3
GRMD2292	Understanding Ecotourism	生態旅遊探索	2
GRMD2303	Urban Geography	城市地理學	3
GRMD2321	Economic Geography	經濟地理學	3
GRMD2401	Sustainable Development	可持續發展	3
GRMD2402	Natural Resource Management	自然資源管理	3
GRMD2403	Nature Conservation in Hong Kong	自然保育在香港	3
GRMD2501	Theory and Practice of Smart Cities	智慧城市：理論與實踐	3
GRMD3102	Research Design and Methodology	研究設計與方法	3
GRMD3104	Satellite Image Analysis	衛星圖像分析	3
GRMD3106	Advanced GIS	高級地理信息系統	3
GRMD3108	Cartography and Geovisualization	地圖學及地理信息視覺化	3
GRMD3202	Environmental Management	環境管理	3
GRMD3203	Urban Environmental Problems	城市環境問題	3
GRMD3205	Geomorphology	地貌學	3
GRMD3209	Soil Science	土壤學	3
GRMD3224	Tourism Planning and Management	旅遊規劃與管理	3
GRMD3301	Geography of China	中國地理	3
GRMD3302	Population and Migration	人口與遷移	3
GRMD3304	Cultural Geography	文化地理學	3

GRMD3305	Transport Geography	運輸地理學	3
GRMD3323	Urban and Regional Planning	城市與區域規劃	3
GRMD3401^	Energy Resources for Carbon Neutrality	碳中和時代的能源資源	3
GRMD3402^	World Development	世界發展透視	3
GRMD3404	Natural Hazards and Human Responses	自然災害與人類反應	3
GRMD4001	Final Year Thesis I	畢業論文（一）	3
GRMD4003	Special Topics in Geography and Resource Management I	地理與資源管理專題研習（一）	3
GRMD4004	Special Topics in Geography and Resource Management II	地理與資源管理專題研習（二）	3
GRMD4101	GIS Workshop	地理信息系統工作坊	3
GRMD4202	Hydrology and Water Resources	水文與水資源	3
GRMD4203	Ecosystem Restoration and Management	生態系統修復及管理	3
GRMD4204	Environmental Planning and Assessment	環境規劃與評估	3
GRMD4302	Urban Planning Workshop	城市規劃工作坊	3
GRMD4403^	Methods for Resource Evaluation & Planning	資源評估與規劃方法	3
GRMD4502	Urban Big Data Analysis and Application	城市大數據分析及應用	3
GRMD4503	Smart City Policies and Governance	智慧城市政策與治理	3
GRMD5110	Statistical Applications in Geography	地理學統計應用	3
LSCI1002	Introduction to Biological Sciences	生物科學入門	3
LSCI2002	Basic Laboratory Techniques in Life Sciences	生命科學基本實驗技巧	2
MAEG1020	Computational Design and Fabrication	計算設計與製造	3
MAEG2020	Engineering Mechanics	工程力學	3
MAEG2030	Thermodynamics	熱力學	3
MAEG2050	Robot Development in Practice: From Design to Prototyping	機器人開發實踐：從設計到原型製作	3
MAEG3010	Mechanics of Materials	材料力學	3
MAEG3020	Manufacturing Technology	製造技術	3
MAEG3030	Fluid Mechanics	流體力學	3

MAEG3040	Mechanical Design	機械設計	3
MAEG3050	Introduction to Control Systems	控制系統導論	3
MAEG3060	Introduction to Robotics	機器人學導論	3
MAEG3070	Fundamentals of Computer-Aided Design	計算機輔助設計基礎	3
MAEG3080	Fundamentals of Machine	機器智能基礎	3
MAEG4030	Heat Transfer	熱傳學	3
MAEG4070	Engineering Optimization	工程優化	3
MAEG4080	Introduction to Combustion	燃燒學導論	3
MAEG4998	Final Year Project I	畢業專題研究（一）	3
MATH1010	University Mathematics	大學數學	3
MATH1510	Calculus for Engineers	微積分的工程應用	3
MATH1520	University Mathematics for Applications	大學應用數學	3
MATH2550	Quantitative Methods for Earth and Environmental Sciences	地球及環境科學的定量方法	3
PHYS1110	Engineering Physics: Mechanics and Thermodynamics	工程物理：力學及熱力學	3
PHYS1111	Introduction to Mechanics, Fluids and Waves (University Physics I)	力學、流體與波動導論（大學物理一）	3
PHYS1122	University Physics II – Introduction to Optics and Modern Physics	大學物理（二）：光學與近代物理導論	3
PHYS1712	Physics Laboratory I	物理實驗（一）	1
PHYS2041	University Physics III – Introduction to Heat and Electromagnetism	大學物理（三）：熱學與電磁學導論	3
PHYS2051	Quantitative Methods for Basic Physics	基礎物理中的定量方法	3
PHYS2061	Basic Computational Physics	基礎計算物理學	3
PHYS2401	Introduction to Astronomy and Astrophysics	天文及天體物理導論	3
PHYS2711	Physics Laboratory II	物理實驗（二）	2
PHYS3011	Classical Mechanics I	經典力學（一）	3
PHYS3021	Quantum Mechanics I	量子力學（一）	3
PHYS3022	Applied Quantum Mechanics	應用量子力學	3
PHYS3031	Thermodynamics and Statistical Physics	熱力學與統計物理學	3

PHYS3041	Electromagnetic Theory I	電磁學理論（一）	3
PHYS3051	Methods in Theoretical Physics I	理論物理的分析方法（一）	3
PHYS3061	Introduction to Computer Simulation of Physical Systems	物理系統之電算機模擬導論	3
PHYS3410	Practical Electronics	實用電子學	3
PHYS4011	Classical Mechanics II	經典力學（二）	3
PHYS4031	Statistical Mechanics	統計力學	3
PHYS4041	Electromagnetic Theory II	電磁學理論（二）	3
PHYS4050	Solid State Physics	固體物理	3
PHYS4061	Computational Physics	計算物理學	3
PHYS4420	Physics in Meteorology	氣象學中的物理	3
PHYS4430	Astrophysics	天文物理	3
PHYS4450	Optical Physics	光學物理	3
PHYS4460	Relativity	相對論	3
PHYS4610	Senior Project I	畢業專題研究（一）	3
STAT1011	Introduction to Statistics	統計導論	3
STAT1012	Statistics for Life Sciences	生命科學統計	3