



Secondary Schools - The Hong Kong University of Science and Technology (HKUST)
Dual Program 2018
Level 1 (Chemistry)

中學／大學雙修課程 2018
階段一（化學）

Course Objectives 課程目標

It is an introductory course for students with limited background in chemistry. It covers basic concepts and core topics for a solid foundation in chemistry. The course aims to:

- Introduce basic chemical concepts and historical development of chemistry;
- Introduce essential principles and concepts in chemistry;
- Explain the connection of chemistry with modern technology;
- Explain the importance of chemistry in daily life.

這是一個讓有限化學背景的學生修讀的基礎課程，涵蓋化學的基本概念和知識基礎的核心課題。本課程旨在：

- 介紹基本的化學概念和化學的歷史發展；
- 介紹重要的化學原理和概念；
- 闡明化學與現代科技的關係；
- 解釋在日常生活中化學的重要性。

Course Instructors 課程導師

Dr KWAN HUANG, Enrique (Department of Chemistry) 關瑞豪博士（化學系）

Dr CHAN, Ho Wai (Department of Chemistry) 陳浩懷博士（化學系）

Medium of Instruction 教學語言

Cantonese / English *, with lecture notes in English
廣東話／英語授課 *，並輔以英文教材

Assessment 評核方式

Classwork / Homework / Mid-term Test / Final Assessment
(No make-up assessment is arranged)
課堂表現／功課／中期測試／期終評估（不安排後補評估）

Venue 地點

HKUST Campus 香港科技大學

* The medium of instruction adopted for this course will depend on the enrolment each year.

課程最終採取的教學語言將依據每年報讀學生情況而定。

Remarks 備註

Outstanding students will be promoted to DP Level 2. Course schedule and content are subject to change if necessary.
表現優異的同學可晉升雙修課程階段二。課程時間表及內容為暫定，會應需要而變更。



DP Level 1 (Chemistry) — Course Schedule
雙修課程 階段一（化學） — 課程時間表

Session 節次	Date 日期	Time 時間	Venue 地點	Topic 課題
1	24/11/2018 (Sat)	To be confirmed 待定	To be confirmed 待定	Commencement Ceremony 開學典禮
		2:00 – 5:00 pm		Introduction to Chemistry 化學緒論
2	8/12/2018 (Sat)	2:00 – 5:00 pm		Atoms and Atomic Structure 原子與原子結構
3	15/12/2018 (Sat)	12:30 – 2:00 pm		▲ Tutorial 1 (Optional) ▲ 導修課 1 (選擇參與)
		2:00 – 5:00 pm		Chemical Bonds 化學鍵
4	5/1/2019 (Sat)	2:00 – 3:00 pm		Chemical Accounting 化學中的計算
		3:00 – 5:30 pm		* Student Activity Day (Mandatory) 學生活動日 (所有學生必須出席)
5	12/1/2019 (Sat)	2:00 – 5:00 pm		Chemical Accounting 化學中的計算
6	19/1/2019 (Sat)			Gas, Liquid, Solid and Intermolecular Forces 氣體·液體·固體·分子間的作用力
7	26/1/2019 (Sat)			Acids and Bases 酸和鹼
8	2/2/2019 (Sat)			Redox and Electrochemistry 氧化還原和電化學
9	16/2/2019 (Sat)			Organic Chemistry 有機化學
10	2/3/2019 (Sat)			12:30 – 2:00 pm
		2:00 – 5:00 pm		Organic Chemistry 有機化學
11	9/3/2019 (Sat)	2:00 – 5:00 pm		Polymers 高聚物
12	16/3/2019 (Sat)			Chemical Reactions and Energy 化學反應與能量
13	23/3/2019 (Sat)		Reaction Kinetics 反應動力學	
14	30/3/2019 (Sat)	12:30 – 2:00 pm	▲ Tutorial 3 (Optional) ▲ 導修課 3 (選擇參與)	
		2:00 – 5:00 pm	Chemical Equilibrium 化學平衡	
15	6/4/2019 (Sat)	2:00 – 5:00 pm	Industrial Chemistry 工業化學	
16	13/4/2019 (Sat)		Assessment 評核	
	27/4/2019 (Sat)	To be confirmed 待定		Make-up Session in case of Bad Weather 天氣惡劣的後補課節

▲ Tutorial: Conducted by Dual Program alumni. **For signed-up students only.** 導修課：由雙修課程舊生指導。只限已報名同學參與。

*Student Activity Day: Students will have a chance to participate in enrichment activities outside classroom. Apart from it, CDGT will organize a wide range of activities and programs such as campus tour and mentorship scheme for students. Details will be announced later.

學生活動日：學生將有機會走出課室參與活動及參觀。除此以外，CDGT 將舉辦更多活動，如：校園探索之旅及師友計劃，以助學生作全面發展。詳情容後公布。