

The Chinese University of Hong Kong
Faculty of Science
Science Academy for Young Talent

Summer Courses 2023
Course Outline

CUSA1041 Essentials of Organic Chemistry
有機化學精華

Introduction: This course aims at introducing the essential concepts of organic chemistry and how it is closely related to our daily life. Students will learn the fundamental knowledge of organic chemistry with a particular emphasis on stereochemistry. Through laboratory demonstration and participation, students will be introduced to basic experimental techniques and scientific methods in organic chemistry. Students can therefore gain appreciation of the daily practice of a synthetic organic chemist in a university research environment.

本課程旨在介紹有機化學的精華和這一學科與我們日常生活的緊密聯繫。學生將學習有機化學的基本知識及立體化學的專題討論。通過參加實驗，學生將學到有機實驗的基本技術和科學方法，從而接觸到有機合成化學家在大學研究環境裏的日常工作及操作。

Medium of Instruction: Cantonese supplemented with English
粵語輔以英語

Organising Unit: Department of Chemistry, Faculty of Science, CUHK

Teachers:



Prof. Gavin Chit TSUI (徐哲教授)

Associate Professor

Department of Chemistry, CUHK

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Course content:

21 August 2023 (Monday)	9:30 am – 12:30 pm	<u>Topic 1:</u> Introduction to Organic Chemistry (Lecture)
	2:00 pm – 5:00 pm	<u>Topic 2:</u> Separation of Mixtures by Column Chromatography (Lab)
22 August 2023 (Tuesday)	9:30 am – 12:30 pm	<u>Topic 3:</u> Alkanes and Stereochemistry (Lecture)
	2:00 pm – 5:00 pm	<u>Topic 4:</u> Resolution of <i>trans</i> -1,2-diaminocyclohexane (Lab)
23 August 2023 (Wednesday)	9:30 am – 12:30 pm	<u>Topic 5:</u> Chemistry of Life and Basic Organic Reactions (Lecture)
	2:00 pm – 5:00 pm	<u>Topic 6:</u> Amazing Molecules that Changed the World (Special Lecture)
24 August 2023* (Thursday)	Make-up class	

Duration	3 days sessions (total 18 contact hours)
Date	21, 22, 23 August 2023 24 August 2023* (make-up class)
Time	9:30 am – 12:30 pm & 2:00 pm – 5:00 pm
Teaching Mode	Face to Face (The Chinese University of Hong Kong)
Enrollment	30
Expected Applicants	Students who are promoting to or studying S4 – S6
Tuition Fee	HKD 3,380.00
Credit	1.25 Academy Unit Certificate of completion will be awarded to students who pass the assessment (if applicable) and attain at least 75% attendance.
Grading Methods	Letter grades range from A to F.

* This date is reserved for make-up classes in case there is any cancellation of classes due to unexpected circumstances.