

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

Summer Courses 2018  
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

**Organising Unit:**

Department of Chemistry, Faculty of Science, CUHK

**Teachers:**

Prof. C TSUI

Department of Chemistry, CUHK

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**Course content:**

<p>6 August 2018 (Monday)</p> <p>9:30 am – 12:30 pm 2:00 pm – 5:00 pm</p>	<p><b><u>Lecture:</u></b></p> <ul style="list-style-type: none"> <li>• Introduction to Organic Chemistry</li> </ul> <p><b><u>Lab:</u></b></p> <ul style="list-style-type: none"> <li>• Background Information</li> <li>• Experiment: Separation of Mixtures by Column Chromatography</li> </ul>
<p>7 August 2018 (Tuesday)</p> <p>9:30 am – 12:30 pm 2:00 pm – 5:00 pm</p>	<p><b><u>Lecture:</u></b></p> <ul style="list-style-type: none"> <li>• Alkanes</li> </ul> <p><b><u>Lab:</u></b></p> <ul style="list-style-type: none"> <li>• Background Information</li> <li>• Experiment: Resolution of <i>trans</i>-1,2-diaminocyclohexane</li> </ul>
<p>8 August 2018 (Wednesday)</p> <p>9:30 am – 12:30 pm 2:00 pm – 5:00 pm</p>	<p><b><u>Lecture:</u></b></p> <ul style="list-style-type: none"> <li>• The Chemistry of Life: Biomolecules</li> </ul> <p><b><u>Special Lecture:</u></b></p> <ul style="list-style-type: none"> <li>• Amazing Molecules that Changes the World</li> </ul>
<p>9 August 2018* (Thursday)</p> <p>9:30 am – 12:30 pm 2:00 pm – 5:00 pm</p>	<p>Make-up class</p>

<b>Duration</b>	3 days (total 18 contact hours)
<b>Date</b>	6 – 8 August 2018 9 August 2018* (make up class)
<b>Time</b>	6 – 8 August 2018: 9:30am – 12:30pm, 2:00pm – 5:00pm 9 August 2018*: 9:30am – 12:30pm, 2:00pm – 5:00pm (make up class)
<b>Venue</b>	The Chinese University of Hong Kong
<b>Enrollment</b>	30
<b>Expected applicants</b>	S4 – S6 students
<b>Tuition Fee</b>	HKD 3,150.00
<b>Credit</b>	1.5 Academy Unit Certificate or letter of completion will be awarded to students who attain at least 75% attendance and pass the assessment (if applicable)

\* This date is reserved for make-up classes in case there is any cancellation of classes due to bad weather or other factors.