

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

Summer Courses 2023
Course Outline

CUSA1043 Life Science in Daily Life
日常生活中的生命科學

Introduction: Life science is the study of all living organisms and life processes at all levels from ecological to molecular. While many people refer life science as biology, it is an enormous field of study that also covers genetics, molecular biology, cell biology, biochemistry, food science, biotechnology, ecology, and more. The knowledge of life science teaches us to respect and love the nature and all life forms. It also plays a substantial role in human welfare and helps to create many of our daily needs ranging from food to medicine.

生命科學以科學方式對所有生物體和生命過程由生態到分子各個層面進行研究。雖然許多人將生命科學稱為生物學，但其實它是一個巨大的研究領域，其中還包括遺傳學、分子生物學、細胞生物學、生物化學、食品科學、生物技術、生態學等。生命科學的知識教會我們尊重和熱愛自然和所有生命體。它還在人類福利方面發揮著重要作用，並有助於創造我們從食物到藥品的許多日常需求。

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

Organising Unit: School of Life Sciences, Faculty of Science, CUHK

Teachers:



Professor NGO Chi Ki Jacky
Associate Professor
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Course Content:

<p>14 August 2023 (Monday)</p> <p>9:00 am – 12:30 pm 2:00 pm – 5:30 pm</p>	<ul style="list-style-type: none"> • What are Life Sciences? • Importance of Life Sciences in Our Daily Lives. • Thinking and Acting like a Life Scientist.
<p>16 August 2023 (Wednesday)</p> <p>9:00 am – 12:30 pm 2:00 pm – 5:30 pm</p>	<ul style="list-style-type: none"> • The Building Blocks of Our Bodies. • DNA – the Blueprint of Life.
<p>18 August 2023 (Friday)</p> <p>9:00 am – 12:30 pm 2:00 pm – 5:30 pm</p>	<ul style="list-style-type: none"> • The Central Dogma: From DNA to Proteins. • The 20 Letters of Protein that Make Life Possible.
<p>21 August 2023 (Monday)</p> <p>9:00 am – 12:30 pm 2:00 pm – 5:30 pm</p>	<ul style="list-style-type: none"> • Unleashing the Potentials of Life Sciences.
<p>23 August 2023* (Wednesday)</p> <p>9:00 am – 12:30 pm 2:00 pm – 5:30 pm</p>	<p>Make up Class</p>

Duration	4 whole day sessions (total 28 contact hours)
Date	14, 16, 18, 21 August 2023 23 August 2023* (make-up class)
Time	9:00 am – 12:30 pm & 2:00 pm – 5:30 pm
Teaching Mode	Face to Face (The Chinese University of Hong Kong)
Enrollment	15 – 30
Expected Applicants	Students who are promoting to or studying S2 – S4
Tuition Fee	HKD 3,980.00
Credit	2 Academy Unit Certificate of completion will be awarded to students who pass the assessment (if applicable) and attain at least 75% attendance.
Grading Methods	Pass or Fail

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