



香港中文大學  
The Chinese University of Hong Kong



# BACHELOR OF SCIENCE IN BIOLOGY AND CHEMISTRY

## DOUBLE MAJOR PROGRAMME



香港中文大學理學院

**FACULTY OF SCIENCE**

THE CHINESE UNIVERSITY OF HONG KONG

# INTRODUCTION

Conscientiously devised by the Faculty of Science, School of Life Sciences and Department of Chemistry, the **Bachelor of Science in Biology and Chemistry Double Major Programme** is designed to equip students with enhanced broadness and diversity in both fields.

In light of the prevalent trend of the transformation to a knowledge-based economy, there is a proliferating demand of highly-educated scientists who has an interdisciplinary scientific expertise.

It is believed that this programme will be capable of coping with this particular demand by nurturing a group of students with cutting edges in both workforce and academia.

## WHY BIOLOGY x CHEMISTRY?

### Knowledge & Training

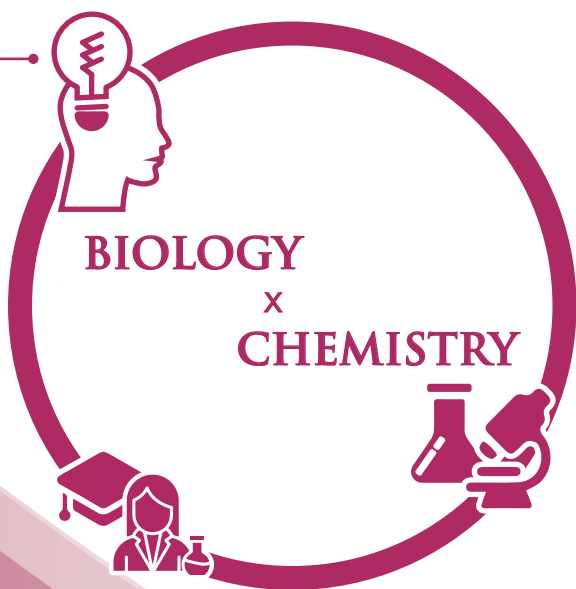
- To be equipped with a broad scientific knowledge ranging from quantum chemistry, atoms, molecules, cells, physiology, biodiversity, ecology to evolution.
- To be trained with technical and analytical skills from both biology and chemistry disciplines.

### Cross-disciplinary Research

- To enjoy ample opportunities to take research method courses and final year projects supervised by professors from both units.
- To immerse in an environment that can receive the bona fide cross-disciplinary training in research.

### Professional Development

- To be equipped with cross-disciplinary scientific skills.
- To develop enhanced adaptability and employability in multiple job sectors.





# PROGRAMME STRUCTURE

## Faculty Package (9 units)

Biology

Chemistry

Physics

## Major Courses (76 units)

### ***Biology***

#### **Required (32 units)**

- Cell Biology
- Biochemistry
- Genetics
- Ecology
- Evolution
- Biodiversity

#### **Electives (6 units)**

- Advanced and Research Related Courses

### ***Chemistry***

#### **Required (29 units)**

- Analytical Chemistry
- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry
- Materials Chemistry
- Theoretical Chemistry

#### **Electives (9 units)**

- Advanced and Research Related Courses

## Capstone Courses (4 units)

Senior Experimental Project / Problem-based Learning

## University Core (39 units)

Chinese & English Languages  
University General Education  
Information Technology  
Physical Education  
Understanding China & Hong Kong

## Free Electives



**Detailed Course List**



**Prof. Hui Ho Lam Jerome, School of Life Sciences**

"The new **B.Sc. in Biology and Chemistry Double Major Programme** aims to equip high-calibre students with knowledge in both Biology and Chemistry within four years. Graduates will be able to work in job sectors/pursue further studies in Biology, Chemistry, or fields requiring both Biology and Chemistry. We look forward to seeing you soon."

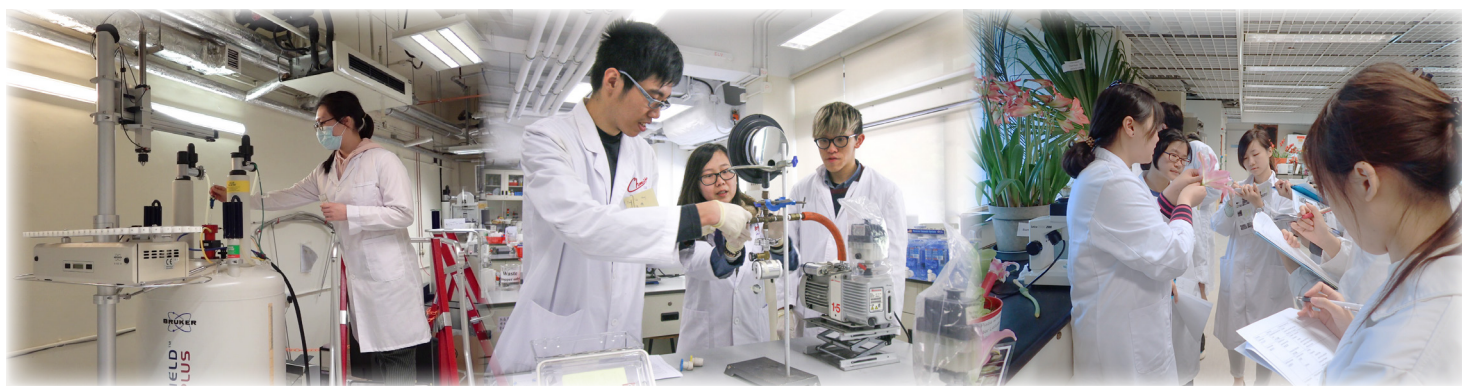


**Prof. Ngai To, Department of Chemistry**

"The new **B.Sc. in Biology and Chemistry Double Major Programme** provides students with a taste of multidisciplinary scientific training to anticipate the collaborative research environment. Apart from robust scientific knowledge, students may receive the final year project supervision from Biology and Chemistry scholars to equip them with cross-disciplinary research skills. We look forward to empowering your dreams through science."

# ADMISSION REQUIREMENTS

- Admitted via Science Broad-based admission (JS4601)
- **Phase I: (Admission stage)**
  - (A) HKDSE results of Chemistry and Biology (with total scores not less than 10), combinations as follows:  
**Level 5\*** or above in Chemistry and **Level 4** or above in Biology /  
**Level 5\*** or above in Biology and **Level 4** or above in Chemistry /  
**Level 5** or above in both Biology and Chemistry; OR
  - (B) Qualifications eligible for exemption of CHEM1070 & LSCI1002; OR
  - (C) Obtained  $\geq 88\%$  of the total score in the Joint Entrance Examination (JEE)
- **Phase II (End of Year 1)**
  - Grade B or above or granted course exemption in CHEM1070 and LSCI1002



## CAREER

**B.Sc. in Biology and Chemistry Double Major Programmes** equips students with cross-disciplinary scientific skills and enhance their adaptability and employability in multiple job sectors that provide accreditation, analytical and clinical testing services, pharmaceutical and health care products marketing, patent law firm or investor consultancy, education, environmental consultancy, and research and development (R&D).

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