



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, Department of Chemistry and School of Life Sciences, the Bachelor of Science in Chemistry & Biology Double Major Programme is planned 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 to cope with this particular demand by nurturing a group of students with cutting edges in both workforce and academia.

WHY BIOLOGY x CHEMISTRY?

Knowledge & Training

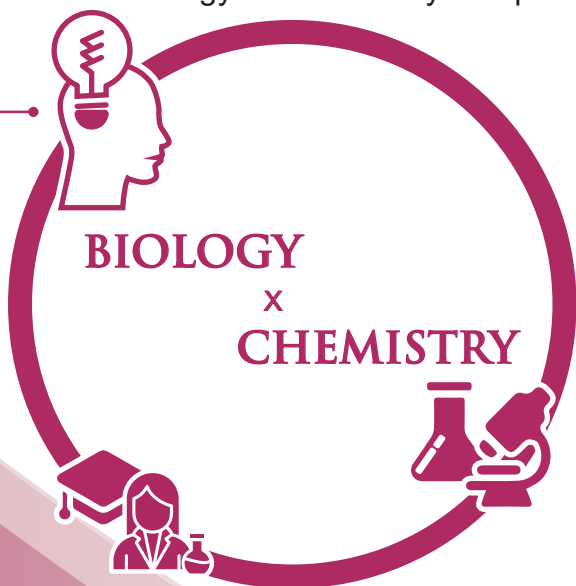
- To be equipped with a broad scientific knowledge ranging from quantum chemistry, atoms, molecules, cells, physiology, biodiversity, ecology to evolution.
- To be trained with technical and analytical skills from both biology and chemistry disciplines.

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
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 double major programme in Biology and Chemistry (DMBC) 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

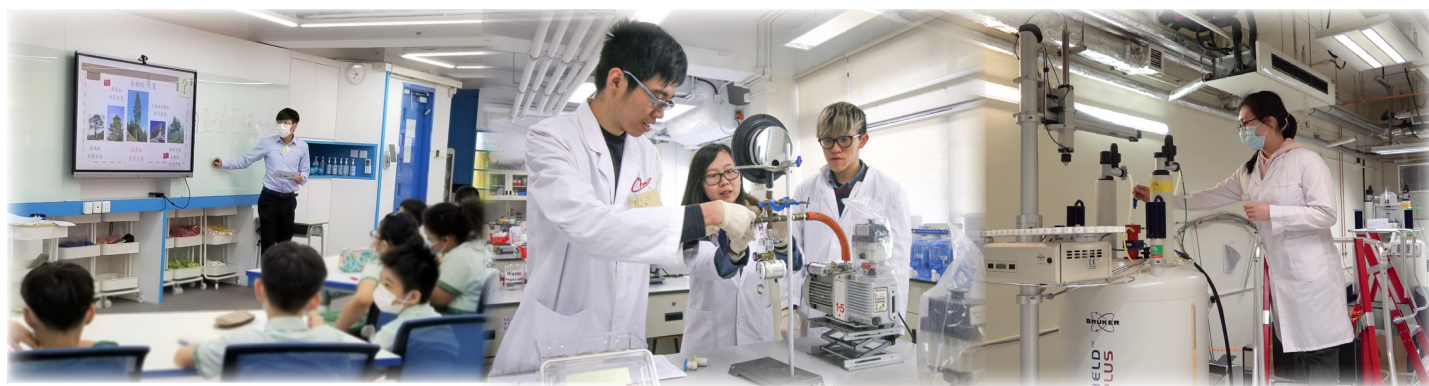
"The new double major programme in Biology and Chemistry (DMBC) provides students with a taste of multidisciplinary scientific training to anticipate the collaborative research environment.

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

Double Major Programmes in Biology and Chemistry will equip 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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