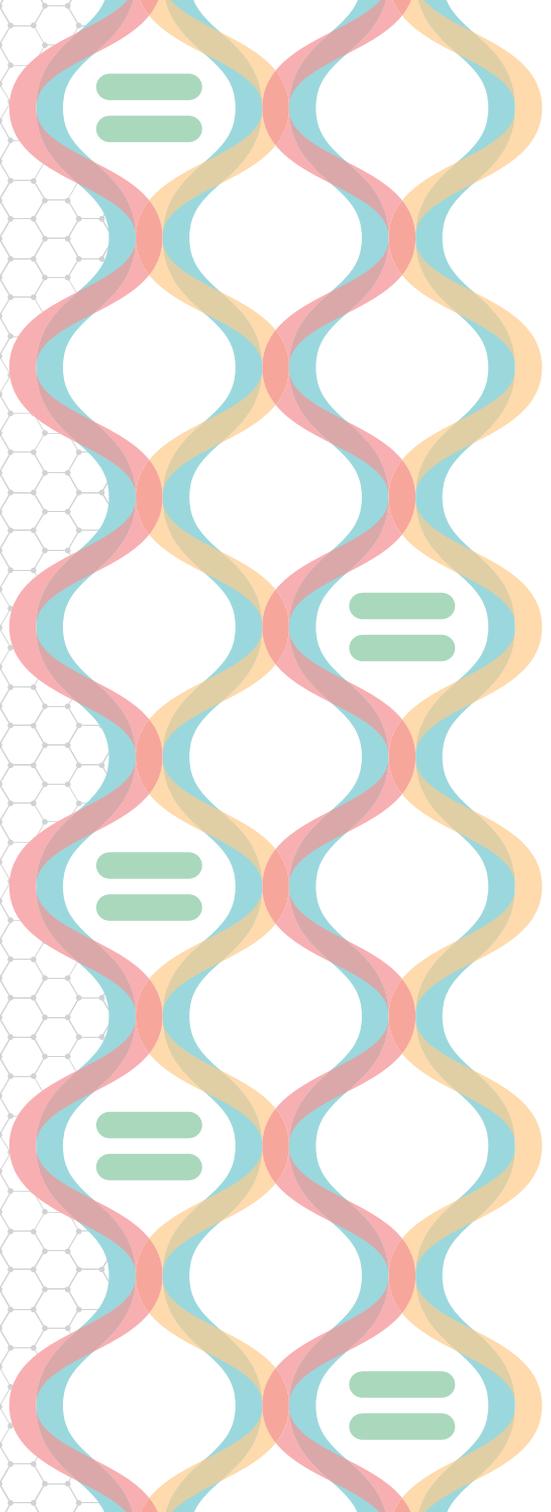




**BSC IN
BIOMEDICAL
SCIENCES**

CUHK



BSc in Biomedical Sciences

is a 4-year, full-time undergraduate programme with the mission of training the next generation of biomedical scientists to engage in research, entrepreneurship and allied health services.

BSc in Biomedical Sciences is a multi-disciplinary, comprehensive and integrative Programme that best illustrates the relevance of biomedical sciences in the clinical, pharmaceutical and healthcare settings. The curriculum closely follows modern medical trends, including innovative treatments for, and diagnosis of, diseases and new solutions to address global health demands. Our courses are delivered by leading scientists in the School of Biomedical Sciences, guest speakers from the Clinical Departments of the Faculty of Medicine, and industry experts who share their views on how biomedical advances impact modern medicine.

CUHK School of Biomedical Sciences was formed on 1 June 2009 by the amalgamation of the Departments of Anatomy, Biochemistry (Medicine), Pharmacology, and Physiology. We have over 50 academic and teaching staff with excellent track record in undergraduate teaching and training postgraduate students. Being part of the Faculty of Medicine, the School gains strong backing from the clinical departments and has a close connection to the teaching hospital. Together with our strong linkage with international research institutions and the local biotechnology cluster, the School is in a position of strength to nurture solidly trained talents for the demand of local, regional and international research institutions, biomedical industry, health services and the government sector.

生物醫學理學士是跨學科、全面綜合的課程，展現生物醫學在臨床、製藥和醫療保健等領域舉足輕重。課程緊貼現代醫學趨勢，教授創新的疾病診斷和治療方法，以及應對全球衛生需求的方案。本課程除了由生物醫學學院的優秀科學家教授外，亦會邀請醫學院臨床學系以及相關領域的專家授課和分享經驗，並探討現代醫學如何緊扣生物醫學的最新發展。

香港中文大學生物醫學學院於2009年6月1日成立，由解剖學、生物化學（醫學）、藥理學及生理學四個基礎醫學學系合併而成，並有超過50位對本科教育和研究生培訓有出色往績的學術及教學人員。作為醫學院一員，本學院獲臨床學系及教學醫院支持，亦與國際知名研究機構及本地生物科技業界緊密合作，培訓人才以滿足本地及海外研究機構、生物醫學界、衛生服務和政府部門等人力需求。



Programme Highlights 課程特質

Integrative Curriculum
整合課程

Multidisciplinary
跨學科

Practical
實用

Innovation and Entrepreneurship
創新與企業家精神

Personalised Learning Experience
個人化的學習體驗

Why CUHK Biomedical Sciences? 為何選擇中大生物醫學？

- Curriculum relating the relevance of biomedical sciences knowledge and research in the clinical, pharmaceutical, and healthcare settings.
課程著重探討生物醫學知識及研究與臨床、製藥及醫療系統的聯繫。
- A wide range of training opportunities open to students with our strong linkage with international research institutions and local biotech clusters.
與國際知名研究機構及本地業界有緊密聯繫，為學生提供更多培訓機會。
- Students are diversified to various experiences and career options by choosing one out of the three Concentration Areas, supplemented by relevant Experiential Learning activities.
學生可以從三個專修範圍中選修其中一項，配合相關體驗式學習活動，以獲得不同的學習經驗及了解就業選擇。
- Collaborate with clinical departments in the Faculty of Medicine and experts in the industry.
與醫學院的臨床學系及業界專家緊密合作。



Programme Structure

課程結構

Programme Title : BSc in Biomedical Sciences
課程名稱 : 生物醫學理學士

JUPAS Code : JS4550
聯招編號 : JS4550

Duration : 4 Years (full-time)
修讀年期 : 四年 (全日制)

Year 1 一年級

Faculty Package 學院課程

Foundation Course for Health Sciences I
基礎醫學科學 (一)

Human Structure and Function
人體結構與功能

Interprofessional Healthcare
跨醫療專業教育

Major Core 必修科目

Biochemistry of Human Body
人體生物化學

Biomedical Sciences and Society
生物醫學與社會

Laboratory Techniques in Biomedical Sciences
生物醫學實驗技術



Year 2 二年級

Major Core 必修科目

Biostatistics and Epidemiology
生物統計學和流行病學

Human Functions and Diseases
人體功能與疾病

Introduction to Bioethics
生命倫理學入門

Introduction to Molecular Biology
分子生物學導論

Pharmacology and Toxicology
藥理學與毒理學



Year 3 or above 三年級或以上

Major Core 必修科目

Immunology
免疫學

Microbiology
微生物學

Major Electives 選修科目

Bioinformatics, Genomics and Proteomics
生物信息學、基因組學與蛋白質組學

Drug Design and Development
藥物設計與開發

Medical Genetics
醫學遺傳學

Pharmacogenomics and Pharmaceutical
Biotechnology
藥物遺傳學及生物製劑技術

Traditional Chinese Medicine and
Pharmacognosy
中醫藥與生藥學

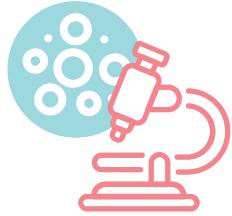
PLUS One Concentration Area
及選修一項專修範圍



Use English as the medium of instruction.
本課程以英語授課。

Concentration Areas 專修範圍

A. Biomedical Research 生物醫學研究



Experimental Design and Execution, Journal Analysis and Reporting Results
實驗設計與執行、期刊分析及報告結果

PLUS at least 2 courses from the following:
及以下最少 2 科:

Cancer Biology
癌症生物學

Development and Reproduction
發育與生殖學

Neuroscience
神經科學

Stem Cell and Regenerative Medicine
幹細胞與再生醫學

Cardiovascular and Metabolic Biology
心血管與代謝生物學

B. Strategic Management and Entrepreneurship 管理與企業策略



Design Thinking and Practice
設計思考與實踐

Health Services Management
醫務衛生服務管理

Innovation Bootcamp
創新實訓營

Intellectual Property Law for Entrepreneurs
企業家的知識產權法

The Landscape of the Biomedical Industry
生物醫學產業現狀

Toolkit for Entrepreneurs
創業者工具箱

C. Health Services and Consultation 健康服務與諮詢



Clinical Anatomical Pathology
臨床解剖病理學

Forensic Science
鑑證科學

Instrumental Analysis and Application in Biomedical Sciences
儀器分析與應用

Introduction to Good Manufacturing Practice for Advanced Therapy Products
先進療法良好生產規範入門

Molecular Techniques in Genetics and Medicine
遺傳學與醫學分子技術

Experiential Learning Requirement 體驗式學習要求

Complete one Experiential Learning requirement (Capstone Research Project or Biomedical Internship) before graduate
畢業前完成一項體驗式學習活動 (總結性科研項目或生物醫學實習)

Concentration Area A 專修範圍 A

CaPstone Research Project
總結性科研項目



Concentration Area B & C 專修範圍 B & C

Biomedical Internship
生物醫學實習



EXPERIENTIAL LEARNING - DIVERSIFIED LEARNING EXPERIENCES

體驗式學習 — 多元化的學習體驗



Depending on the Concentration Area that a student has opted for, students could commit to either an independent capstone research project or a local/overseas biomedical internship during their final year for fulfilling the Programme requirement.

學生可根據所選修的專修範圍，於課程最後一年完成總結性科研項目或本地/海外生物醫學實習，以滿足課程要求。

Voices from our Students 學生心聲

CHAN Chun Lok Patrick

My internship had been rewarding. My satisfaction was not only due to positive responses towards the newly developed learning system from Alzheimer's patients, but also came from insights gained from colleagues in filling public health niches and translating scientific languages into layman's terms. Early exposure to the biomedical industry, the experience allowed me to delve into my vocation and interest. Furthermore, I could explore more occupations such as public health professions and medical science liaisons. Certainly, this experience will facilitate consolidating my desired career path from now on.



CHOI Hoi Yi Michelle

From human diseases to regenerative medicine, the courses provided by the School have exposed us to the frontiers of various scientific fields. I was fortunate enough to have conducted my capstone research project on neuroscience — not only was I able to have hands-on experience with cutting-edge technology, but I also had the opportunity to bond with fellow labmates and professors while tackling scientific questions as a team.



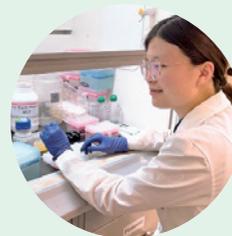
LEE Zhi Xuen Joyce

I am thankful to have a very dedicated professor to guide me not only on lab techniques but also on the qualities a biomedical researcher should possess. It was the first time I realized the potential of my capstone research project to impact the community when a novel, translational cancer intravasation model was developed. The opportunities of presenting the work at international conferences and writing manuscripts for journal publication have definitely paved the way for my solid start as a Ph.D. student.



LI Yangxian Caroline

The capstone research project has equipped me with the necessary research skills and techniques and trained me to be keen on the latest advancement in the scientific field and state-of-the-art biotechnology. I am grateful to the School for providing me with such an opportunity that encourages me to continue my postgraduate studies and empowers me with the passion and courage to stand before challenges in research.



LUK Ah Yin Cherry

This internship allowed me to get a taste of the day-to-day operations and working environment in a company. Through observation and hands-on experiences, I got familiarized with techniques like cell culture, DNA extraction, RT-qPCR, ELISA, and CRISPR. I also acquired skills regarding data analysis and event planning. This experience enabled me to gain a deeper insight into the kinds of career paths that I would like to pursue in the future.



YUEN Lu Ho Leo

During my internship, I gained a thorough understanding of the gut health industry in Hong Kong and acquired practical skills in various laboratory tasks such as DNA extraction, real-time quantitative PCR, and quality control. I am glad to apply my theoretical knowledge from university courses to the interplay between academia, business, science, and technology, which will greatly benefit my future career.



Admission Requirements

入學要求

JUPAS - HKDSE

大學聯合招生辦法 – 香港中學文憑試

	Subject 科目	Minimum Level 最低成績等級
Four Core Subjects 四科核心科目	Chinese Language 中國語文	3
	English Language 英國語文	3
	Mathematics 數學	3
	Citizenship and Social Development 公民與社會發展	A (Attained 達標)
Two Elective Subjects 兩科選修科目	Biology or Chemistry PLUS any one Category A subject. 生物或化學，加任何一科甲類選修科目。	3
		
Subjects with 1.5 weighting 佔1.5比重的科目	 English 英文	 Biology 生物
	 Chemistry 化學	

The Programme will accept “Attained with Distinction” in the following Applied Learning (ApL) Subjects as the 3rd or 4th elective subject for awarding bonus points: Applied Business Research, Entrepreneurship for SME, Marketing in Global Trade, Understanding Hong Kong Law, Foundation in Chinese Medicine, Fundamental Health Care, Health Care Practice, Medical Laboratory Science.

若申請者修讀以下應用學習科目為第三或第四科選修科目，並獲評為「達標並表現優異」，亦可獲額外加分：應用商業研究、中小企創業實務、國際商貿市場拓展、認識香港法律、中醫藥學基礎、基礎健康護理、健康護理實務、醫務化驗科學。

Bonus points to the 3rd or 4th elective subject with Level 3 or above.
第三及第四科選修科目達3級或以上可獲額外加分。

Non-Chinese Speaking applicants:

- should not have taken the Chinese Language subject in HKDSE and
- should have obtained a pass grade or above in a Chinese subject or in another language subject (other than English and Chinese) in other recognized public examinations as approved by the University from time to time.

Selection interview 入學面試

After the release of HKDSE result,
於文憑試成績公佈後安排。

Non-JUPAS 非大學聯合招生辦法

Examination	Requirement
International Baccalaureate	Two of the following subjects, which should include at least one * subject (Standard Level / Higher Level) : Biology*, Chemistry*, Sports, Exercise and Health Science*, Mathematics subjects, Physics, Business Management
GCE-AL / International AL	3AL / 2AL + 2AS (not including Chinese) with Grade AAA or above. Include at least one of the following subjects: Biology, Human Biology, Chemistry, Business
Other Public Examinations	Must include at least one of the following subjects: Biology, Chemistry, Sciences related subjects

Selection interview

Advance Offer Round
Nov - Dec

Regular Round
Jan - Feb

Non-JUPAS (Local and Other Regions) applicants can refer to the website of Office of Admissions and Financial Aid, CUHK (<http://www.oafa.cuhk.edu.hk/>) for details of language and other requirements.

Students who require a student visa to study in Hong Kong are eligible for “International Students Admissions Scheme” and are categorized as Non-JUPAS (Other Regions) applicants.

Further Study/ Career Prospects

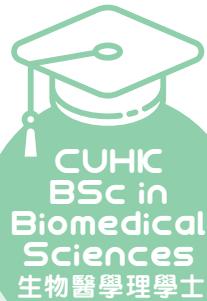
升學及就業前景



Alumni pursuing a PhD at the University of Oxford
畢業生於牛津大學攻讀博士學位

Research Postgraduate Studies: MPhil and PhD in Biomedical Sciences 生物醫學碩士 / 博士

- Such as: The Chinese University of Hong Kong, University of Oxford, Imperial College London, University College London and King's College London.
如：香港中文大學、牛津大學、倫敦帝國學院、倫敦大學學院、倫敦國王學院。



On-the-job Training in Industry 在職訓練

- Biomedical Professions, Medical Media and Communications**
生物醫學行業、醫藥媒體及傳媒
Patent Attorney, Scientist in Biotechnology/ Biopharmaceutical Companies, Bioinformatician, Medical Media Communications, Investment Analysts.
專利代理人、生物科技/ 生物製藥公司研究員、生物信息學人員、醫藥媒體編輯、投資分析師
- Health Services, Policy and Management**
健康服務、政策與管理
Authorized Person - Quality Management Personnel for Advanced Therapy Products, Medical Genetics/ Molecular Genetics Professional, Genetic Counsellor, Administrator at the Government and Hospital Sectors.
先進療法設施品質管理人員、醫學遺傳/ 分子學遺傳專業人員、遺傳諮詢師、政府或醫院管理人員

CUHK MSc in Genomics and Bioinformatics 基因組學及生物信息學理學碩士

- Quotable qualification approved by the Hong Kong Medical Council
經香港醫務委員會批准的可引述資歷



CUHK Professional Diploma in Genetic Counselling 遺傳諮詢專業文憑

CUHK MSc in Medical Genetics 醫學遺傳學理學碩士

- Quotable qualification approved by the Hong Kong Medical Council
經香港醫務委員會批准的可引述資歷
- Prepare candidates to pursue a career as "Clinical Geneticist" or related to Genetic Counselling.
課程為從事臨床遺傳學家或遺傳諮詢相關的職業鋪路。

Study Option with The University of Manchester 銜接曼徹斯特大學的修讀選項

Complete a BSc in Biomedical Sciences at CUHK and one of the following Master's degree at The University of Manchester
在香港中文大學完成生物醫學學士課程以及曼徹斯特大學其中一項碩士課程

CUHK Professional Programme in Regulation of Advanced Therapy Products 先進療法規範專業課程

- Authorized Person** is a new profession in the industry of advanced therapeutic products (CAR-T, stem cell) whose registration is under the Department of Health.
先進療法專業人員為先進療法產品(CAR-T, 幹細胞)的新興專業人員, 其專業資格於香港衛生署註冊。

- MSc in Tissue Engineering for Regenerative Medicine
再生醫學組織工程理學碩士
- MSc in Infection Biology
感染生物學理學碩士



Scholarships and Awards

獎學金與獎項

The University and School of Biomedical Sciences offer a wide range of scholarships and awards to recognize students' outstanding academic performance, achievements in extracurricular activities, and leadership. We also support students to commit overseas internship and academic activities.

University-, College- and School-based Admission Scholarships are also available to award students with outstanding academic achievements upon admission.

Over the years, Biomedical Sciences students have been awarded many prestige and competitive scholarships/ awards for their outstanding academic achievements and achievements in extracurricular activities, awards include:

- HKSAR Government Belt and Road Scholarship
- The Hong Kong Jockey Club Undergraduate Scholarship
- The Hong Kong Jockey Club Graduate Scholarships at the University of Oxford
- The Innovation and Technology Scholarship
- Wei Lun Foundation Scholarship
- Lo Kwee-Seong Biomedical Research Fund Admission Award and Academic Prizes

大學及生物醫學學院均為學生提供獎學金和獎項，以表揚成績優異、在課外活動中有傑出成就、以及具領導才能的學生。我們亦設獎學金支持學生參與海外實習和學術活動。

大學、書院及學院另設有入學獎學金以表揚入學成績優異的新生。

過去生物醫學學生因其優異學術成績及傑出課外活動表現而獲得下列競爭激烈的獎學金：

- 香港特別行政區政府一帶一路獎學金
- 香港賽馬會本科生獎學金
- 香港賽馬會牛津大學研究生獎學金
- 創新科技獎學金
- 偉倫基金會獎學金
- 羅桂祥生物醫學研究基金入學獎及學術獎





Programme Enquiry 課程查詢

BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCES
SCHOOL OF BIOMEDICAL SCIENCES
FACULTY OF MEDICINE, CUHK
香港中文大學醫學院
生物醫學學院
生物醫學理學士

 <http://biomedsci.sbs.cuhk.edu.hk>

 sbs-biomedsci@cuhk.edu.hk

 (852) 3943 6838

 (852) 2603 5022

 Programme Office, BSc in Biomedical Sciences
School of Biomedical Sciences
610, Choh-Ming Li Basic Medical Sciences Building
The Chinese University of Hong Kong
Shatin, N.T., Hong Kong
生物醫學學院
生物醫學理學士課程辦公室
香港中文大學李卓敏基本醫學大樓6樓610室



BMS Website



BMS FB



BMS IG



BMS Youtube