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 the leading scientists of the School of Biomedical Sciences, guest speakers from the Clinical Departments of the Faculty of Medicine, and industry experts who will share their views on how biomedical advancements 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.

Students are diversified to various experiences and career options by choosing one out of the three Concentration Areas, supplemented by relevant Experiential Learning activities.

Curriculum relating the relevance of biomedical sciences knowledge and research in the clinical, pharmaceutical, and healthcare settings. Students are diversifies to various experiences and career options by choosing one out of the three Concentration Areas, supplemented by relevant Experiential Learning activities.

A wide range of training opportunities open to students because of our strong linkage with international research institutions and local biotech clusters. Students are diversifies to various experiences and career options by choosing one out of the three Concentration Areas, supplemented by relevant Experiential Learning activities.

Why CUHK Biomedical Sciences?

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Collaborate with clinical departments in the Faculty of Medicine and experts in the industry. Students are diversifies to various experiences and career options by choosing one out of the three Concentration Areas, supplemented by relevant Experiential Learning activities.

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Programme Structure

Programme Title: BSc in Biomedical Sciences

Year 1

Faculty Package
Communication Skills
Foundation Course for Health Sciences I
Interprofessional Healthcare
Public Health and Healthcare Ethics

Major Core
Biochemistry of Human Body
Biomedical Sciences and Society
Human Structure and Function
Laboratory Techniques in Biomedical Sciences

Year 2

Major Core
Bioinformatics, Genomics and Proteomics
Drug Design and Development
Medical Genetics
Pharmacogenomics and Pharmaceutical Biotechnology
Traditional Chinese Medicine and Pharmacognosy

PLUS One Concentration Area

Year 3 or above

Major Core
Immunology
Modern Medicine

Major Electives
Bioethics
Molecular Biology
Pharmacology and Toxicology

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

A. Biomedical Research
生物醫學研究

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

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

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
- Vascular and Metabolic Biology
血管與代謝生物學

Design Thinking and Practice
設計思考與實踐

Health Services Management
保健服務管理

Innovation Bootcamp
創新實訓營

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

Pharmaceutical and Biomedical Industry
現今的製藥及生物醫學行業

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 Medicinal Products
藥品良好生產規範入門

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）
Experiential Learning - Diversified Learning Experiences

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.

Voices from our Students

CHASE 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.
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.

**Selection interview**

**Advance Offer Round**

Nov - Dec

**Regular Round**

Jan - Feb

**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
Further Study/Career Prospects
升學及就業前景

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

CUHK BSc in Biomedical Sciences
生物醫學理學士

On-the-job training in industry
在職訓練

Biomedical Professions, Medical Media
生物醫學行業、醫療媒體
- Patent Attorney, Scientist in Biotechnology/Biopharmaceutical Companies, Bioinformatician, Medical Media Communications.
- 專利代理人，生物科技/生物製藥公司研究員，醫療媒體編輯

Health Services, Policy and Management
健康服務，政策與管理
- Quality Management Personnel for Advanced Therapy Products, Medical Genetics/Molecular Genetics Lab Professional, Administrator at the Government and Hospital Sectors.
- 先進療法設施品質管理人員，遺傳學/分子學遺傳實驗室人員，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 MSc in Medical Genetics
醫學遺傳學理學碩士

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

Study Option with The University of Manchester

Complete a BSc in Biomedical Sciences at CUHK and one of the following Master’s degree at The University of Manchester

- MSc in Tissue Engineering for Regenerative Medicine
- MSc in Infection Biology

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 for 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。
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- 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 achievement 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
Programme Enquiry

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

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