# The Gateway to Knowledge, Competence and Empathy

Undergraduate Prospectus 2022







### **Message From the Dean**

HKUMed often features in the news for its world-leading research, of which all members of the Faculty, both students and staff, are very proud – our much-publicised work on COVID-19 is but one example of this. But we are equally proud of the outstanding quality of our education programmes. Education is our first priority at HKUMed – otherwise we would simply be a research institute – and we make continual efforts to ensure our students not only receive the highest quality education possible but feel supported throughout their time here.

Across all our programmes – MBBS, BNurs, BChinMed, BPharm, BBiomedSc, BASc in Global Health and Development and BSc in Bioinformatics – students not only receive a top-notch professional education, but the skills to keep learning beyond graduation. Knowledge and technology are continually advancing and our task is to prepare you so you can acquire knowledge independently, distinguish what is important and apply that to patient care and research. You will most definitely have this capability when you leave HKUMed.

We also ensure our students have access to state-of-science technologies and techniques, such as augmented and virtual reality, data analytics, simulated reality and, starting this year, hand-held ultrasound probes, which are being provided to all Specialty Clerks in the MBBS. Technology is increasingly central to healthcare and we want our students to be skilful in applying it in the field.

A unique feature of education at HKUMed is our emphasis on enrichment. Careers in healthcare and research are demanding. Your years of study are a precious time when you can deepen your understanding of the world and gain new experiences. We provide enrichment options across our programmes and, most importantly, support in making the most of these. We also have programmes and people in place to support student well-being and help guide you through the many challenges and rewards of your studies. I include myself in this – my door is always open to students and I always respond to their calls be they in the form of an email or a social media message.

Support also includes the physical infrastructure for studying. HKUMed is in the midst of a great physical expansion that will enhance all of our teaching and research activities. No. 3 Sassoon Road opened this year to house the School of Nursing and School of Chinese Medicine. We are also developing a state-of-the-art clinical skills training centre with simulation facilities and a student services centre at William M.W. Mong Building and a new Clinical Training and Amenities Centre, both of which will be completed within the next couple of years.

When you join HKUMed, you are not only gaining an education, you are joining the HKUMed family. We have produced many leaders in medicine, government and other fields in Hong Kong and around the world. Our aim is to make all students, staff and alumni proud and happy members of the HKUMed family. I hope you will join us and become a part of our honourable legacy.

> Professor Chak-sing Lau, BBS, JP Dean of Medicine



### The Cradle of Healthcare Professionals

HKUMed is this year celebrating its 135<sup>th</sup> anniversary, making it the oldest institution of higher education in Hong Kong. We have a strong reputation as a pioneer in medical education, training and research, while proudly serving as a bastion of morality, vision and care.

The challenges of the COVID-19 pandemic have highlighted how crucial medical education is to society. From providing care to patients, to leading crucial research that has driven policy decisions, we are honoured to serve the global community.

In the face of these challenges, we have achieved a historically high ranking for "clinical and health" subjects in the 2022 Times Higher Education World University Rankings and are continuing to uphold professionalism and clinical teaching excellence.

The Faculty now ranks in 20<sup>th</sup> position globally and 3<sup>rd</sup> in Asia for this category. We are proud to continue our tradition of spearheading achievement from our campus on Sassoon Road. We have trained thousands of healthcare practitioners and scientists, as well as many internationally renowned researchers and policy-makers.

Each year, we admit almost 640 students across seven programmes, which include MBBS, BNurs, BChinMed, BPharm, BBiomedSc, BASc(GHD) and BSc(Bioinformatics), and our student body is one of the largest for a single Faculty, totalling more than 4,850 people.



# Teaching and Learning: Empowering Curious Minds

More than 320 full-time teaching staff from our 20 departments and schools deploy the latest technologies, such as virtual reality, to engage students in the classroom. These full-time teachers are supplemented by honorary teachers, most of whom are medical professionals.

HKUMed takes a student-centred approach, always listening to your needs and welcoming feedback on the curriculum and other aspects of student life. We are constantly reviewing the curriculum to ensure it keeps pace with scientific developments and the needs of modern healthcare. To achieve this, our teaching is constantly evolving to ready you for today's healthcare industry, such as training in point-of-care ultrasound for medical students.

You have access to enrichment opportunities throughout your time at HKUMed, from international exchanges to volunteering for community vaccine drives.

#### Clinical Service: Building a Caring and Compassionate Society

HKUMed delivers superlative clinical service and provides robust clinical governance in all settings that we serve. Our four affiliated hospitals under the HKU Health System offer valuable opportunities for students to learn more and learn better. These hospitals also represent the Faculty's leading status in healthcare management in Hong Kong and the region. Our members engage in a wide range of activities to share their knowledge and expertise to benefit Hong Kong society as a whole.

HKUMed graduates are a testament to the excellent education we provide and have gone on to become the leaders in their fields in Hong Kong and the world.

# Research and Innovation: Opening Locked Doors to the Unknown

Research is an important part of HKUMed's global reputation: 61 of our members ranked among the top 1% of scholars in their field in terms of citation and recognition. We are always looking ahead to the next breakthrough while brushing up our existing areas of expertise. As such, HKUMed researchers stand at the forefront of research into COVID-19 and infectious diseases globally with two of our scientists receiving the 2021 Future Science Prize in Life Sciences for their work. Our researchers are supported by ample funding, state-of-the-art facilities and the Faculty's extensive worldwide networks.

As an undergraduate, you can explore research opportunities with the guidance of our scientists and pursue discoveries in our world-class laboratories to get a head start on your career.

### **Faculty's Firsts**

The Faculty has always been at the forefront of medical research and development of new clinical services for the benefit of mankind. With our researchers' toil and persistence, we have made important contributions to the study and treatment of cancers and liver diseases, and have made notable advances in tissue typing, spinal surgery, infectious diseases, in-vitro fertilisation, endocrinology and tobacco-related diseases.



### 2003

First to discover the SARS coronavirus

First to identify the source of SARS coronavirus infection

# 2005

First to identify the natural reservoir of SARS coronavirus

### 2009

The world's first remotely controlled expandable device implantation surgery to treat children with scoliosis

# 2011

First extra-cranial intravenous-cranial vascular bypass and craniofacial resection for locally advanced recurrent nasopharyngeal carcinoma in the world

# 2013

First to characterise the epidemiology of H7N9 influenza in the world

# 2016

First live birth by assisted reproduction with preimplantation genetic screening (PGS) using next generation sequencing for couples having chromosomal error in Hong Kong

## 2019

First magnetic sphincter augmentation for gastro-oesophageal reflux disease in Asia

### 2021

COVID-19: HKUMed discovered a novel vaccine strategy to prevent SARS-CoV-2 nasal infection

### 2004

First to characterise the epidemiology of SARS coronavirus

### 2008

First in the world to develop and launch a publicly accessible index (Hedley Environment Index) with hourly estimation of air pollution impact on adverse health outcomes and economic costs

## 2010

First to develop a patented prescription drug, an oral arsenic trioxide preparation for the treatment of acute promyelocytic leukaemia

First combined heart and liver transplant in Hong Kong

## 2012

First in the world to describe a model of coronavirus evolution, based on the 23 novel human and animal coronaviruses discovered over 10 years

## 2014

First subcutaneous implantable cardioverter defibrillator in Asia

First exome-chip analysis of lipid traits in Chinese

### 2018

First comprehensive study of MERS coronaviruses in Africa

First invention of universal antibody drug for HIV-1 prevention and immunotherapy

### 2020

COVID-19: The Department of Microbiology and the HKU-Shenzhen Hospital provided the world's first evidence to establish person-to-person spread in The Lancet

# Commitment to Excellence

Bachelor of Medicine and Bachelor of Surgery







# Professionals in the Making

Our MBBS curriculum aims to produce doctors who are forward-thinking, well-informed and capable of delivering humane and ethical medical care. HKUMed graduates will be ready to practise, dedicated to professionally serving the community, and prepared to excel through life-long learning across their future careers.

The curriculum is delivered across four themes:



Human Biology in Health and Disease



Professional Skills: Diagnostic, Problem Solving, Effective Communication and Clinical Management



Medical Ethics, Professional Attitudes and Behaviour

Population Health, Health Services, Economics and Policy

### An Illuminating Six-Year Quest

The MBBS curriculum runs for six years, or 12 semesters.

The delivery of the MBBS 140 Curriculum is structured along the "140+ CORE situations" as the backbone. CORE being "*Common* situations pertaining to *Ordinary* clinical settings, in which students are expected to acquire the *Relevant* knowledge, skills and behaviour that are *Essential* for competent and ethical professional practice". In MBBS I and II, emphasis is placed on integration of biomedical sciences in a patient-oriented approach aligned with the 140+ CORE. The Clinical Clerkships (MBBS IV to VI) focus on understanding the Principles of Medicine and Healthcare, with Readiness for Practice in authentic clinical settings as the ultimate curriculum goal.









The curriculum is being constantly renewed in light of emerging knowledge and societal needs to ensure your training is fit-for-purpose and forward looking. It is not without good reason that many of the leaders in our field are HKUMed graduates! **Enabling Students to Flourish and Excel** 

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HKUMed nurtures competent medical professionals prepared to flourish and excel in the fast-changing healthcare environment of the 21<sup>st</sup> century. We place a strong emphasis on our students' personal development and fulfilment. Our programme provides you with ample opportunities for personal growth that will carry you well into your future, when you will serve and excel as responsible citizens, colleagues, teachers and friends within our profession and for the wider community.



#### Active and Student-centred Learning

Guided by our world-class teaching faculty, your learning will take place through an innovative multi-pronged approach of conventional classes, small-group tutorials and multimedia learning resources. Problem-based learning will enable you to develop effective communication skills and good teamwork skills in a medical context. Our excellent digital resources will enable you to learn at your own pace and in your own style. These resources are supplemented by interactive forums that allow active engagement and discussion amongst students and teachers.

#### **Multimedia Learning**

Our programme has pioneered the use of advanced technology in teaching and learning to help you learn basic and advanced medical knowledge effectively. HKUMed has been an early adopter of virtual reality (VR) technology and is one of the world's best equipped medical schools for learning of anatomy through VR. Tools such as Anatomage, a fully segmented real human 3D dissection platform, allow for exploration and learning of human anatomy in innovative ways. Point-of-care ultrasound (POCUS) is integrated early in our curriculum to enable medical students to practise ultrasound scanning skills anytime anywhere.

#### Early Clinical Exposure and Structured Acquisition of Clinical Interpersonal Skills

As early as the first semester of Year 1, you will start learning the interpersonal and clinical skills necessary for effective and compassionate care for patients. This exposure will gradually increase in both mastery and complexity as your studies progress. Much of the learning will take place in the purpose-built Clinical Skills Training Centre, assisted by a well-developed clinical skills e-platform.

Our programme goes well beyond vocational training. Your third year of study, which we call the Enrichment Year, offers a golden opportunity to explore areas of interest in either medical or non-medical fields and design your own learning programme in Hong Kong or abroad. Similarly, after the Fourth Summative Assessment, the 4-week MBBS Elective lets you explore a medical area of your choice. In tandem with sharpening your clinical know-how, we curate the mindset of a competent doctor through collaboration, self-initiated learning, and bold willingness to test theories via problem-based learning.

# Comprehensive Hospital-based, Community-based and Primary Care Experience

Alongside learning that takes place within hospitals, you will gain first-hand experience in a wide variety of community-based settings involving family physicians, maternal and child health services, hospices and patient support groups. This exposure to different arenas of the public health system enables development of a holistic perspective on patient management and a richer understanding of the integration between primary and secondary care.



#### Focus on Medical Ethics and Humanities

Ethical principles and humanitarian values are absolutely essential for doctors to meet the needs and demands of 21<sup>st</sup> century healthcare. You will learn how these principles and values underpin healthcare practice, as well as your professional and legal obligations, through the medical ethics and medical humanities programmes. They are developed and coordinated by our Medical Ethics and Humanities Unit (MEHU), with the aim of cultivating professional doctors capable of engaging with their patients from a position of awareness of their own humanity.

#### **Practising Scientific Research**

HKUMed is at the frontier of global medical research, driven by a strong commitment to improving human health through scientific discovery and advancement in medicine. Research requires and enables you to develop intellectual and analytical skills for a vast array of situations. As a medical student, you will have opportunities to participate in research training that leads to output in scientific journals and significant societal impact. Your research can be clinic-based or laboratory-based, and it can either be part of a project with Faculty staff members or self-initiated under the supervision of a teacher during the Enrichment Year/MBBS Elective.

#### Inter-professional Learning

It is critical for students to learn how to work effectively in an inter-professional team for the delivery of modern healthcare. HKUMed has taken the lead in delivering inter-professional educational experiences where medical, nursing and pharmacy students learn how to communicate, interact and work with one another. For students with demonstrated academic potential and interest in developing inter-professional competence, we offer the opportunity to enrol in intercalated programmes such as the Master of Public Health programme, with scholarships and other forms of financial support.

#### **Student in Medical Education**

The MBBS 140 Curriculum also features the engagement of Student in Medical Education (SIME), fostering a culture where teaching is an important and integral component of professional responsibility and competence. Teaching is an important role expected from all MBBS graduates in the healthcare profession. Peer teaching skills of medical students are cultivated to prepare for their future career as trainers, supervisors, or educators.



# Years 1 and 2

### **Pre-clinical Curriculum: Building the Foundation**

You will acquire health sciences knowledge and basic skills in self-directed learning by studying actual patient cases. You will also have your first exposure to patients through community visits, where you will learn about their care in their social and economic contexts.





The Pre-clinical Curriculum covers the following themes:

#### **Introduction to Health Sciences**

To strengthen your foundation in basic and health sciences.

#### **Professionalism and Clinical Skills**

To gain an overview of the processes of diseases and an introduction to the therapeutic strategies for modulating disease processes.

#### **Precision Medicine**

To explore the exciting innovations in treating disease at the frontiers of genetics and genomics, artificial intelligence and robotics.

#### Medical Humanities, Ethics and Law

To learn about the ethical and legal implications of modern medical care, medical humanities and professionalism.

#### **Medicine and Society**

To learn about caring for the patient as an individual, and as a member of a family and a community.

# Introduction to the Art and Science of Medicine (14 weeks)

The IASM module under the Pre-clinical Curriculum provides a comprehensive foundation of the biomedical sciences that are critical to the art of medical practice. The IASM module makes up most of your learning during the first semester at HKUMed and is organised under the following modules:



#### System-based Blocks (48 weeks)

The complexity of human health is reflected in our system-based blocks, where you will acquire an understanding about the workings of the human body during the second semester of Year 1 and the entire Year 2. The six system-based blocks cover:

Cardiopulmonary and Renal Systems; Gastrointestinal System; Musculoskeletal System; Head, Neck and Nervous System; Haematology and Immunology System; and Endocrine and Reproductive Systems.



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Students are at the centre of all we do as teachers. Active learning is a top priority – having students engaged in innovative ways during lectures and practicals, collaborating during problem-based learning, and actively responding to probing questions with immediate feedback through our e-learning platforms.



Professor Julian Tanner MBBS Programme Director (Pre-clinical)

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My first year at HKUMed was quite the baptism of fire, but nothing short of amazing. I have so many opportunities to discover what I want to get out of life and my passions during my study. Finding my footing with all parts of life as a med student — friends, societies, workload, hall life and more — is made so much easier by the community here. From attending conferences in Malaysia to pushing through every struggle, whatever paths you choose here, there will be joy and success along the way!



Winston Lam MBBS Year 2 Student

### Year 3

### **Enrichment Year: Broadening Your Horizons**

The Enrichment Year (EY) is a credit-bearing component giving each MBBS III student the means to take charge of your learning and tailor activities to your interests and desires.

EY is specially designed to facilitate the enhancement of your total learning experience. You will be able to formulate your EY through three different categories: Service/Humanitarian Work, Research Attachment and Intercalation.

You may take part in a humanitarian relief mission at remote locations, experience medical camps in under-developed countries, or work locally with NGOs via Service/Humanitarian Work. For those with investigative minds, research internship locally at HKU or internationally at world-class laboratories fit perfectly with Research Attachment. Through Intercalation, you are able to take minor or elective courses at HKU, or engage in full-year articulation studies at renowned universities overseas.

Overall, our EY is aligned with HKU's six undergraduate educational aims to enable you to develop capabilities in pursuit of academic/professional excellence, critical intellectual inquiry, tackling novel situations, critical self-reflection, communication and collaboration, and leadership.



Professor Gilberto Leung Associate Dean (Teaching & Learning)

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The Enrichment Year programme is the first of its kind in the world. One of the main purposes is to allow our students to gain a broader experience about the human condition. We would like them to see something outside the hospitals, about how people actually live, and how they struggle with life's problems.









### Service / Humanitarian Work



**Participating local / overseas NGOs** such as PathFinders, Hong Kong Red Cross, Salvation Army and Caritas Hong Kong



### **Research Attachment**



**Research projects** at labs of HKU or renowned institutions such as University of Cambridge, Yale University and The University of British Columbia

UNIVERSITY OF CAMBRIDGE





### Intercalation



Students went on exchange in 26 countries / regions



**Degrees** earned (including intercalated degree and master's degree)



**Top-notch overseas institutions** including Harvard Medical School, Queen Mary University of London, King's College London and The London School of Hygiene & Tropical Medicine











"I did a research attachment at Cancer Research UK, Cambridge. I believe that doctors are lifelong learners, and gaining experience with bioinformatics research can give rise to new ways of thinking about biology."

Chan Yu Kiu Elkie

Research Attachment - Feature Integration for Early Stage Cancer Detection: Trimmers and Aligners for the Fragmentomics of ctDNA, University of Cambridge, UK

"The Research Attachment experience at the Department of Ophthalmology, HKU, not only provided a precious opportunity for me to learn more about ophthalmology but also helped to prepare myself for the clinical years and be a clinical practitioner in the future."

#### Lam Pui Ming

Research Attachment - Long Term Ophthalmic Complications and Vision-related Quality of Life after Allogeneic Haematopoietic Stem Cell Transplantation at Department of Ophthalmology, HKU, Hong Kong





"I spent one semester in my hometown serving with a local Christian counselling centre with financially disadvantaged children from broken and single-parent families. Never have I realised that vulnerable people lived in such proximity to me. This experience left me with an enriched worldview of medicine and humanity, motivating me to be more compassionate in connecting with others, especially my future patients."

Lau Hui En Service/Humanitarian Work - Internship at Right Path Training Services, Malaysia

"I decided to take up a service project in the mainland China during EY to pursue something beyond medical knowledge, aiming at fostering my own personal growth and to become more independent, mature and empathetic. The Enrichment Year allowed me to become not only a better doctor in the future, but also a better person in a holistic way."



Xiao Ailin

Service/Humanitarian Work - Internship at Medicare Resources Ltd, China



"With little exposure to Pathology during our pre-clinical years, the Enrichment Year has presented an amazing opportunity for me to discover topics of pathology that have not been disclosed to us in earlier years of our medical school journey. With the progression through medical school, I hope to continue my participation in research and its related activities."

So Zi Qing Valerie Intercalation - Master of Research in Medicine at HKU, Hong Kong

"The EY has been an amazing year! The intercalated BSc degree at the University of Bristol has equipped me with the requisite knowledge, research skills, and statistical literacy to become future clinician-scientists in the era of Evidence-Based Medicine. It is my privilege to be taught by the top academic scholars in Bristol, and I also benefit a lot from working with other high calibre students from across the world."



Tsang Christopher Tze Wei Intercalation - Intercalated degree at University of Bristol, UK

### Years 4–6

### **Clinical Curriculum: Readiness for Practice**

This is when you will enter the real-life world of clinical practice and get full exposure to how doctors work on a day-to-day basis. You work alongside doctors and nurses as they treat patients while equipping you with the necessary hands-on skills and an in-depth understanding of clinical medicine before you join the ranks as a future health professional.

You will go through three phases: Clinical Foundation Block, Clinical Clerkships, and MBBS Elective.

Clinical Foundation Block	Clinical Clerkships	MBBS Elective			

#### **Clinical Foundation Block**

The 10-week Clinical Foundation Block welcomes you back from the Enrichment Year, and orientates you to the practice of clinical medicine. It is designed to prepare you to "think and act" like a doctor, by consolidating your skills in history taking, physical examination and clinical reasoning.

#### **Clinical Clerkships**

This is an extensive and exciting period of training, running from mid-Year 4 to the final Year. You will be directly involved in day-to-day patient care and will be developing skills including diagnosis, investigation and treatment, as well as interpersonal skills when interacting with patients and families.

The Clinical Clerkships span over two phases: General Clerkship (48 weeks) and Assistant Internship (49 weeks). Through exposure to a variety of clinical contexts in hospital and community settings, we enable students to master the broad range of health and disease conditions in a comprehensive manner, and to gain insights into the full impact of illnesses on patients and their families. Your rotations will be in hospitals as well as clinics offering ambulatory care and community-based primary care. The clerkships will cover: Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics and Adolescent Medicine, Orthopaedics and Traumatology, Microbiology, Pathology, Public Health, Family Medicine and Primary Care, Accident and Emergency Medicine, Anaesthesiology, Clinical Oncology, Diagnostic Radiology, Ophthalmology, Psychiatry, Geriatrics, Rehabilitation and Palliative Care - all established specialties are unique and fascinating in their own right!





#### **MBBS Elective**

After the Fourth Summative Assessment, you will have a 4-week block where you can explore an area of medicine that interests you either through clinical attachment or laboratory/clinical research.

#### **Training with Partner Institutions**

Queen Mary Hospital (QMH) is our major teaching hospital. It is also a tertiary referral centre for complex and advanced medical services for the entire Hong Kong territory. Most of the Faculty's clinical departments are located at QMH, which offer dedicated teaching and learning activities and professional clinical training for our students.

Apart from QMH, learning also takes place in other public hospitals of the Hospital Authority and private hospitals such as the Hong Kong Sanatorium & Hospital, Gleneagles Hospital Hong Kong, and the University of Hong Kong–Shenzhen Hospital across the border. All these hospitals are the key partners of the Faculty in teaching, training and research under the HKU Health System.

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HKUMed strives to provide a positive clinical learning environment that values learner needs. Our curriculum emphasises on knowledge integration and clinical reasoning, communication and team skills, professionalism and systems practice spanning across disciplines and healthcare settings, enabling learners to get ready for practice, realise their potentials and pursue their career aspirations.



Dr Pamela Lee MBBS Programme Director (Clinical)

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Medicine is a lifelong learning journey, it is all about being proactive and self-motivated. Instead of spoon-feeding us with knowledge, HKUMed provided us with the necessary tools, resources and guidance to further our knowledge, deepen our understanding and hone our skills independently. Each of us was given a point-of-care ultrasound (POCUS) probe to obtain hands-on experience as we practise and progress during Clinical Clerkships. HKUMed is not feeding us fish, it teaches us to fish for a lifetime.



Yu Kong To MBBS Year 5 Student

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Under the University-wide Academic Advising system, every incoming HKUMed undergraduate student is paired with a teacher as their Academic Adviser. The assigned teacher will change over the course of a student's undergraduate studies, according to the specific needs of our students at each stage of their professional or academic development. Additionally, HKUMed engages senior students to serve as peer mentors and supporters for our students. Trained in mental health first aid, they actively engage their younger peers and work together with our Academic Advisers in providing pastoral care. Our senior students further provide academic support through near-peer teaching initiatives and learning support sessions. Together, through our teachers and students, HKUMed aims to foster a community that supports active learning and whole-person development.



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Dr Kendrick Shih Director of Student Affairs

Academic advising is a crucial part of a student-centred approach in medical education. At HKUMed, we firmly believe that our medical students learn best in a productive environment, surrounded by supportive teachers as role models. We are very proud that every one of our academic advisers are teachers who have actively volunteered their time and efforts towards guiding our students' academic and professional development. In addition to mentorship, our advisers serve as the important link between the students and our faculty wellness and academic resources.

During the first two years we pair our students with dedicated teachers to help our students adjust to the challenges of medical school life. During the clinical years, our students begin to develop specialty interests. At this stage, we allow our students to choose their own academic advisers from among our clinical teaching staff for a more personalised career development. At every step there is something our advisers can offer our students.

### **Curriculum Structure**

YEA	R 1										
Introduction to the Art and Science of Medicine Block (IASM)			Ye Fo As	ear 1 ormative ssessment	1 Cardiopulmonary and Renal Systems Block (CPRS) hative essment				First Su Assessr	First Summative Assessment	
					At least	t one Common (	Core Course* (	(6 credits)			
	CAES100	0 Core Univ	versity Eng	lish^ (6 cred	its)						
SEI	Р	OCT	NO	V	DEC	JAN	FEB	MAR	APR	MAY	JUN
YEA	R 2										
Gastrointestinal System Block (GIS) (MSS) Year Form Asses		Year 2 Formative Assessment	2 Head, Neck and ative Nervous System sment Block (HNNS)		Haematology and Immunology System Block (HIS) Endocrine and Reproductive Systems Block (ERS)		d Second Summati ck Assessm	ve CEMD9006 Practical Chinese for MBBS Students (6 credits)			
						C	Common Core	Course* (6 cr	edits)		
\$	SEP	OCT		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
YEA	R 3										
					E	nrichment Year					Third
				Comm	non Core Co	urses* (or equiv	alent) (12 cred	lits)			Summative Assessment
SE	ΕP	OCT	N	OV	DEC	JAN	FEB	MAR	APR	MAY	JUN
YEA	R 4										
	Clinical I	Foundation	Year	1				General Cler	kship		
Block Formative Assessment			ative sment	Rotation 1 Rotation 2							
CAES9740 Professional Block A: General Medicine Clerkship   Communication in Clinical Practice Block B: General Surgery Clerkship   (6 credits) Block C: Multidisciplinary Clerkship											
							Laborato	ory and Popul	ation Sciences		
JUL	_ /	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY JUN
YEA	R 5										
	Gen	eral Clerks	hip						Assistant In	ternship	
Rotation 3						Rotation 1 Rotation 2		Rotatio	Rotation 3 Rotation 4		
Block A: General Medicine Clerkship   Fourth Summative     Block B: General Surgery Clerkship   Assessment     Block C: Multidisciplinary Clerkship   Assessment     Laboratory and Population Sciences   Assessment			e MBBS Elective	Medicine Surgery Paediatrics and Adolescent Medicine Obstetrics and Gynaecology Family Medicine and Community Care Psychiatry Orthopaedics & Traumatology / Emergency Medicine							
JUL	/	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY JUN
YEA											
	R 6										
	R 6		Assistant	Internship			Denial				Enhanced
Rotatic	<b>R 6</b> on 4	Rotation 5	<b>Assistant</b>	Internship otation 6	Rc	tation 7	Revision Sessions	Final Summ Assessme	ative ent		Enhanced Pre-internship Block

<sup>^</sup> Students who have achieved Level 5 or above in English Language in the Hong Kong Diploma of Secondary Education Examination, or equivalent, are exempted from CAES1000 Core University English.
<sup>\*</sup> Students are expected to take one Common Core (CC) course in the first year, one CC course in the second year and the remaining CC courses in the third year of study (at least 12 credits must be taken at HKU).



### MBBS/Doctor of Philosophy (MBBS/PhD)

The MBBS/PhD is a full-time combined programme extending over not less than nine years and leading to the award of both MBBS and PhD degrees upon graduation. If you are admitted to this programme, you will pursue full-time research under the supervision of Faculty teachers and undertake coursework prescribed by the Graduate School and the Faculty. You may also attend optional clinical study sessions that are of your interest.

An exciting feature of this programme is that you may receive part of your training at internationally-renowned institutions overseas through the Faculty's international network for research collaborations. HKUMed also has joint PhD/joint educational placement for PhD programmes with King's College London and the University of Toronto.

Starting from 2018-19, the HKSAR government has waived PhD composition fees for all local students. In addition, Croucher Foundation Scholarships are available for a maximum of three outstanding MBBS/PhD students each year to cover the monthly postgraduate studentships, research bench fees and allowances for overseas conference attendance and/or exchange.

### Transfer from MRes[Med] Enter PhD before MBBS Year 4

If you undertake the intercalated Master of Research in Medicine (MRes[Med]) during your Enrichment Year, you can apply to transfer your candidature to the MBBS/PhD programme no later than the 8th month of the MRes[Med]. The time you spent on MRes[Med] would be counted towards the probationary period for your PhD study. After submitting your thesis in the last year of PhD study, you would then re-enter the MBBS programme in Year 4 and complete the remaining years up to Year 6. In a nutshell, this pathway involves two years of MBBS, one year of MRes[Med], three years of PhD, and three more years of MBBS, enabling you to earn the two degrees in nine years.



### Enter PhD before MBBS Final Year

Another pathway is to complete five years of MBBS, followed by three or four years of PhD, then the final year of MBBS. To be qualified for this route, you would need to have: 1) good results in the MBBS I-IV Summative Examinations and 2) a Bachelor's degree with 1st class honours or a Bachelor's degree with honours, plus a taught Master's degree (e.g. MSc) prior to admission to MBBS for 4-year PhD; or a research Master's degree (MPhil) awarded prior to admission to MBBS for 3-year PhD. After submitting your PhD thesis, you would re-enter the MBBS programme and complete the final year. The entire study period for the two degrees would be nine or ten years.



### **Deadline for Application**

Application for MBBS/PhD admissions should be made before **30<sup>th</sup> April every year**. Please refer to the Graduate School website for details.





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### **Pave Your Path**

Your MBBS is a registrable primary qualification that enables you to apply for registration with the Medical Council of Hong Kong to practise medicine in the region. To obtain full registration, graduates are required to successfully complete a 3-week Enhanced Pre-internship Block followed by a 1-year internship in an accredited hospital. The internship will take you through selected rotations in different specialties and will require you to practise clinically under the supervision of experienced doctors. Completion of this basic training will open the door to a multitude of career options.

If you want to become a Specialist, you are then required to undergo more years of postgraduate training and further examinations. Postgraduate and specialist training is administered through the Hong Kong Academy of Medicine and its constituent colleges. HKUMed graduates are a heterogeneous group of doctors, many of whom are now in leading positions in a variety of fields, not just medicine. Some serve the community as frontline doctors in the public and private sectors, while others have pursued academic careers in Hong Kong or overseas, contributing to the development of the next generations of doctors and advancing treatments. Many of our graduates have become world-renowned clinical experts and scientists. Some have become health administrators involved in policy making and healthcare planning for our community, others have made their mark in non-medical careers, such as law, business, or pharmaceutical development. Whatever path you wish to take, HKUMed is here to make your dreams come true.

For more information on admissions





HKU LKS Faculty of Medicine School of Clinical Medicine 香港大學臨床醫學學院

#### **Enquiries**

🖂 medadmit@hku.hk 🛛 🕓 (852) 3917 9193

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🗧 🖸 🎔 @HKUMed

@hkumed\_admissions

www.med.hku.hk



# From Simulation Learning to Life Enrichment

**Bachelor of Nursing** 





# BNURS (JS6468)

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Developing highly-trained nurses with compassionate care skills is the focus of the BNurs curriculum. Students receive a broad spectrum of clinical and simulation training, as well as inter-professional and problem-based learning. They also develop the global vision by participating in life enrichment learning programmes beyond Hong Kong.



The Bachelor of Nursing (BNurs) is a five-year full-time programme leading to an honours degree. The objective of the BNurs programme is to provide comprehensive and holistic nursing education and nurture generic nurses who will be able to work as competent practitioners in various healthcare settings.

The credit-based curriculum is broad-based and multidisciplinary, and is designed to introduce the bio-psychosocial aspects of health and nursing care. It provides a balance between the broad areas of nursing, biological, behavioural and social sciences. The learning outcomes will enable students to obtain knowledge through the study of different disciplines, and to develop an inquiring mind, interpersonal skills and an understanding of the socio-cultural context in which nursing is practised in Hong Kong.

The BNurs programme emphasises the integration of theory and practice. Students are exposed to a variety of clinical environments throughout the study. Comprehensive learning of clinical skills is under the supervision of experienced teaching staff. The process of teaching and learning is directed by nursing academics with a wide range of expertise, supported by the excellent facilities in various departments of the Medical Faculty and clinical settings.



#### **Programme Structure**

The BNurs curriculum includes various courses in each year with an aim to prepare students to be capable of working in different settings as nursing professionals. The main areas covered are Nursing Core Courses, Nursing of Specialised Populations, Theoretical Foundations for Nursing Practice, Foundations in Nursing Research, Nursing Electives, Nursing Practica, Life Sciences, Clinical Pharmacology and Behavioural Sciences. This curriculum structure allows maximum longitudinal and lateral correlations between courses.

There are a total of 44 courses running throughout five years. Among these courses, 26 belong to core courses and seven are practicum courses which aim at preparing students to become competent practitioners. The programme also includes one Life Enrichment Learning Course, one nursing elective course, three language courses and six Common Core courses. Altogether they constitute 303 credits in the entire curriculum.



# "

As a competent nurse, to heal up a patient's wound is not only done by your skillful hands, but also with your empathetic heart.



Mr Benney Wong Lecturer, School of Nursing





# "

HKU Nursing has been nurturing seeds of caring hearts with not only professional knowledge and skills, but also positive values and precious networks that let them bloom into the flowers of tomorrow. I am very grateful to be one of the seeds grown in this beautiful garden.

"



Mr Since Kong BNurs 2010 Manager (Nursing), Nursing Service Department, Hospital Authority Head Office

Field of Study	Allocation of Credits					
	Year 1	Year 2	Year 3	Year 4	Year 5	
Basic / Medical and Surgical Nursing	24	18	-	-	-	
Behavioural Sciences	-	12	-	-	-	
Life Sciences and Clinical Pharmacology	6	12	12	-	-	
Ethics, Law and Professional Issues	-	-	9	-	-	
Specialty Nursing	-	-	6	18	12	
Chinese Medicine and Nursing	-	-	-	6	-	
Community and Global Health Nursing	-	-	-	6	-	
Clinical Reasoning in Practice	-	-	-	-	6	
Management and Informatics	-	-	-	-	6	
Life Enrichment Learning	-	-	6	-	-	
Nursing Elective	-	-	-	-	6	
Nursing Research / Statistics	-	-	-	12	-	
Clinical Practicum	-	6	18	18	30	
Chinese Language	6	-	-	-	-	
English Language	6	6	-	-	-	
Common Core Curriculum	24	12	-	-	-	
Total	66	66	51	60	60	





#### **Modes of Learning**

The BNurs programme incorporates various teaching and learning strategies, such as problem-based learning; inter-professional team-based learning; audiovisuals; e-learning; active learning activities; demonstrations; field trips and educational visits to clinical agencies and community settings. The main classroom teaching approaches include lectures, seminars and tutorials. Clinical education is achieved through laboratory teaching, innovative simulation activities and clinical practicum.

Nursing skills are acquired through demonstrations, simulation, videos, e-learning and practice. For Life Sciences and Clinical Pharmacology courses, the laboratory experiences relate to demonstration of specific areas in anatomy, physiology, biochemistry, microbiology and pharmacology.

A nurse can touch someone's life. Every true life story can touch our heart and soul, inspiring me to be a better person, with a richer and more meaningful life.



Ms Mandy Tong BNurs 2003 Senior Nursing Officer/ Patient Relations Officer, The Duchess of Kent Children's Hospital at Sandy Bay/ TWGHS Fung Yiu King Hospital/ MacLehose Medical Rehabilitation Centre



#### **Clinical Practicum**

The programme emphasises clinical practice. Students have the opportunity to learn and practise under the instruction and supervision of experienced teachers in all aspects of nursing – from basic to advanced complex care, in community and in comprehensive teaching hospitals, such as Queen Mary Hospital. Clinical practicum is arranged in blocks of practice to allow students to consolidate the nursing themes and skills. Clinical placements are arranged in:

- Community centres;
- Aged care centres;
- Outpatient clinics; and
- Specialties in hospitals, including Medical and Surgical Units, Paediatrics Unit, Obstetrics Unit, Accident & Emergency Unit, Operation Theatre, and many more.

#### Life Enrichment Opportunities

The programme is designed to nuture nursing leaders with an international outlook. Students are provided with opportunities to participate in life enrichment programmes including exchange programmes at top universities, e.g. University of Pennsylvania, Case Western Reserve University, University of Toronto, Peking University, Korea University, The University of Tokyo, Kaohsiung Medical University, University of Navarra and The University of Sydney; short-term study programmes; service/humanitarian activities; research attachment, etc.
#### **Curriculum Structure**

YEAR 1: 66 CREDITS						
Common Core Courses (12 credits)	Exam	Common Core Courses (12 credits)	Exam			
Core University English (6 credits)		Practical Chinese for Nursing Students (6 credits)				
Getting into Nursing (6 credits)		Health Promotion and Education (6 credits)				
Foundation of Life Sciences (6 credits)		Health Assessment (6 credits)				
Clinical Skills in Practice (6 credits)						
SEP	DEC	JAN	MAY	JUN	AUG	

YEAR 2: 66 CREDITS						
Common Core Courses (6 credits) Academic Communication for Nursing Students (6 credits) Nursing of Adults I (9 credits) Life Sciences I (6 credits) Health Psychology (6 credits)	Exam	Common Core Courses (6 credits) Life Sciences II (6 credits) Nursing of Adults II (9 credits) Health Sociology (6 credits)	Exam			
Nursing Practicum I (6 credits)						
SEP	DEC	JAN	MAY	JUN	AUG	

YEAR 3: 51 CREDITS					
Ethics, Law and Professional Issues (9 credits)	Exam	Life Enrichment Learning (6 credits)	Exam		
Critical Care and Emergency Nursing (6 credits)					
Clinical Pharmacology (6 credits)					
Life Sciences III (6 credits)					
Nursing Practicum IIa (9 credits)     Nursing Practicum IIb (9 credits)					
SEP	DEC	JAN	MAY	JUN	AUG

YEAR 4: 60 CREDITS					
Nursing of Women and Infants (6 credits) Nursing of Children and Adolescents (6 credits) Research and Scholarship in Nursing (6 credits) Mental Health Nursing (6 credits)	Exam	Essential Statistics (6 credits) Chinese Medicine and Nursing (6 credits) Community and Global Health Nursing (6 credits)	Exam		
Nursing Practicum IIIa (9 credits)     Nursing Practicum IIIb (9 credits)					
SEP	DEC	JAN	MAY	JUN	AUG

YEAR 5: 60 CREDITS						
Nursing of Older Adults (6 credits) Oncology Nursing and Palliative Care (6 credits) Healthcare Innovations: Leadership, Management and Informatics (6 credits) Clinical Reasoning in Practice (6 credits) Nursing Elective (6 credits)	Exam	Nursing Practicum IVa (9 credits) Nursing Practicum IVb (21 credits)	Exam			
SEP	DEC	JAN	MAY	JUN	AUG	

Timetable arrangements may vary from year to year.



Graduates from the BNurs degree programme will be able to function independently to assess and appraise the healthcare needs of the community. Those who have satisfactorily completed all programme requirements will be eligible for direct registration as registered nurses with the Nursing Council of Hong Kong.

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Acquiring nursing skills and knowledge is crucial, but it is more important to serve with critical thinking, global vision, and an empathetic heart.



Alex Wong BNurs 2022

# BNurs-ALT (JS6418)

ADVANCED LEADERSHIP TRACK (BNurs-ALT) THE BACHELOR OF NURSING

> An elite track designed for high caliber candidates who are high achievers and aspire to pursue an advanced and specialised nurse practice or a nursephysician career in the healthcare sector.

This track enables highly competent students to accomplish a dynamic and vigorous study plan and to fulfil accredited professional curricula at an accelerated pace.

First and only bachelor's nursing programme in Hong Kong to offer articulation to the HKU Master of Nursing (MNurs) or HKU Bachelor of Medicine and Bachelor of Surgery (MBBS)

#### **Two Articulation Pathways**

BNurs-ALT is the first and only nursing track in Hong Kong that offers two articulation pathways\*:

Articulation to Master of Nursing (MNurs)

Students shall be admitted to 1-year part-time MNurs study, upon successful completion of the 5-year BNurs–ALT, and shall be able to OBTAIN ONE BACHELOR'S DEGREE AND ONE MASTER'S DEGREE IN NURSING IN 6 YEARS.

Prospect: Advanced & Specialised Nurse

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Articulation to Bachelor of Medicine and Bachelor of Surgery (MBBS) Students shall be admitted directly to HKU MBBS Year 2 and exempted from the Year 3 enrichment year requirement, upon successful completion of the 5-year BNurs–ALT degree with first class honours, and shall be able to OBTAIN TWO PROFESSIONAL DEGREES IN 9 YEARS.

Prospect: Nurse-physician

\* Subject to the fulfilment of MNurs/MBBS programme entry requirements. BNurs with first class honours and HKDSE "Chemistry" or "Combined Science (Chemistry)" are required for the MBBS articulation pathway.



#### Leadership Development Programme

Students will be able to acquire unique leadership skills and experiential learning opportunities in their study journey in nursing.

# Personal Mentors Throughout the Course of Study

Students will be assigned a designated professoriate staff and an experienced nurse leader as personal mentors, who provide advice and guidance throughout the BNurs-ALT study. Students can learn from the great minds, expand their personal networks and broaden their horizons.

#### **Diversified Roadmaps**

The articulation pathways provided under the BNurs-ALT are subject to one's interest, career aspiration and academic performance, etc. Scholarships covering the full composition fee of MNurs will be provided to students with exemplary academic performance.

#### Highlighted Structure of BNurs-ALT



For more information on admissions



#### **Scholarships**

#### **Entrance and Academic Elite Scholarships in Nursing**

HKDSE students admitted to BNurs and BNurs-ALT



#### Scholarship for the MNurs Articulation Pathway

Scholarship covering full composition fee of MNurs will be offered to BNurs-ALT graduates with outstanding academic performance.

#### **Future Prospects**

#### **Competent and Transferable Skills**

Graduates are equipped with practical clinical skills and will be able to translate evidence-based theories into practice.

#### **Professional Recognition**

Graduates who have satisfactorily completed all programme requirements will be eligible for direct registration as registered nurses with the Nursing Council of Hong Kong.

#### **Global Leadership**

Graduates are trained with global leadership traits and will be able to work effectively across multidisciplinary teams around the world.

#### **Extensive Networks**

Graduates will gain an extensive professional network via clinical practicum from community centres and clinics to comprehensive teaching hospitals; and via research attachments and personal mentors.



HKU LKS Faculty of Medicine School of Nursing 香港大學護理學院

#### **Enquiries**

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( 
@HKUSchoolNursing )



# First-hand Experience and Interdisciplinary Exposure

**Bachelor of Chinese Medicine** 





# **BChinMed**

HKU Med

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Early and frequent clinical skills training in both clinics and hospital settings is an integral part of the BChinMed programme. Students are provided with opportunities to apply and practise their skills throughout the programme and they are encouraged to develop their learning interests and explore their aspirations.

#### **Programme Aims and Objectives**

The aim of the Bachelor of Chinese Medicine (BChinMed) programme is to nurture a new generation of Chinese Medicine professionals who are well equipped with knowledge in Chinese Medicine and biomedical sciences and are competent in clinical skills and life-long learning skills to provide excellent Chinese Medicine healthcare services to the community to foster the development of Chinese Medicine and integrative medicine in Hong Kong.

#### **Programme Overview**

The BChinMed curriculum is a six-year programme, including the clinical clerkship in Year 6 undertaken in Mainland China. The curriculum is made up of the following components:

- Chinese Medicine Foundation Courses
- Chinese Medicine Classical Texts Courses
- Chinese Medicine Clinical Courses
- · Biomedical Sciences Courses (including Western medicine bedside training)
- Disciplinary Elective Courses
- Field Trip and Chinese Medicine Dispensary Practicum
- Chinese Medicine Clinical Attachments, Junior Clerkship and Clinical Clerkship
- Common Core Curriculum Courses
- Language Enhancement Courses



# PROGRAMME FEATURES

#### Classical Chinese Medicine Supplemented with Biomedical Sciences

The programme offers comprehensive and systematic Chinese Medicine and biomedical sciences courses taught by teachers of the School of Chinese Medicine, School of Biomedical Sciences, School of Clinical Medicine and School of Public Health of the Medical Faculty.

#### **Early and Comprehensive Clinical Training**

Early clinical training is provided through clinical attachments under the supervision of teachers at the eight Chinese Medicine Clinical Centres for Teaching and Research which are directly under or affiliated to the School. With the support of state-of-the-art facilities in the Clinical Skills Training Centre, students receive comprehensive clinical skills training before practising on real patients. In Year 4, students will undergo a four-week junior clerkship at the University of Hong Kong-Shenzhen Hospital to integrate and practise what they have learnt in junior years. In Year 6, students are required to undertake a 40-week clinical clerkship in the teaching hospitals of top Traditional Chinese Medicine universities in Guangzhou, Shanghai or other cities in Mainland China under the arrangement of the School.

#### Learning Experience Beyond Professional Core

HKU

Students are required to take Common Core Courses during their first and second years of study. These courses help students develop a broader perspective and build up critical thinking abilities over issues that they encounter in their everyday lives.

#### **Development of Interest in Scientific Research**

Students are given the opportunity to undertake laboratory experiments in several Chinese Medicine and biomedical sciences courses. The School has also set up different research interest groups for students to participate in research during their studies.

#### **Bi-literacy and Tri-lingualism**

English is the medium of instruction for most of the Common Core Courses and all biomedical sciences courses. Putonghua and Cantonese will be used in Chinese Medicine courses, field trips and the Chinese Medicine dispensary practicum, clinical attachments, junior clerkship and clinical clerkship.

# "

This programme has widened my understanding of the universe and human body. I am equipped with theoretical knowledge, practical skills and ethics of traditional Chinese Medicine through a variety of learning experiences.

"



**Tong Yee Man** BChinMed 2022







#### **Modes of Learning**

An outcome-based approach to students' learning and multidisciplinary teaching approaches, such as problem-based learning and clinical case discussion, are adopted.

The programme emphasises the integration of theories and practical skills. Experiential learning is encouraged through participation in clinical attachments, junior clerkships and clinical clerkships in which students will have the opportunity to apply the knowledge acquired in practical settings.

Through the Chinese Medicine Undergraduate Student Exchange Programme, students can widen their horizons and enrich their learning experience. Successful applicants will have the opportunity to study at the Shanghai University of Traditional Chinese Medicine for one summer semester.

Students will also participate in a field trip which they can learn more about the indigenous traditional Chinese medicine herbs in the natural environment in Mainland China. The Chinese Medicine dispensary practicum will, on the other hand, allow them to obtain practical experience at Chinese Medicine dispensary.

#### **Curriculum Structure**

YEAR 1					
Foundation Theories of Chinese Medicine Life Science I Core University English Common Core Curriculum Course	Exam	Diagnostics of Chinese Medicine History of Chinese Medicine Disciplinary Elective Course* Practical Chinese for Chinese Medicine Students Common Core Curriculum Course	Exam	Chinese Medicine Clinical Attachment I	
SEP	DEC	JAN	MAY	JUN	AUG
YEAR 2					
Chinese Materia Medica Archaic Chinese Medical Literature Medical Ethics and Professionalism in Chinese Medicine Practice Life Science II Common Core Curriculum Course	Exam	Chinese Medicine Prescriptions Medical Ethics and Professionalism in Chinese Medicine Practice Life Science III Common Core Curriculum Course	Exam	Field Trip and Chin Dispensary Practic	ese Medicine um
SEP	DEC	JAN	MAY	JUN	AUG
YEAR 3					
Canon of Chinese Medicine Chinese Internal Medicine Life Science IV Immunology Pathology	Exam	Chinese Internal Medicine Foundation of Acupuncture Pathology English for Clinical Clerkship for Chinese Medicine Students	Exam	Chinese Medicine C Disciplinary Elective	linical Attachment II a Course*
SEP	DEC	JAN	MAY	JUN	AUG
YEAR 4					
Surgery of Chinese Medicine Gynaecology of Chinese Medicine Otorhinolaryngology of Chinese Medicine Fundamentals of Diagnosis Clinical Pharmacology	Exam	Treatise on Exogenous Febrile Diseases Traumatology and Orthopaedics of Chinese Medicine Tui-na of Chinese Medicine Fundamentals of Diagnosis Evidence-based Practice and Public Health Clinical Skills Training	Exam	Junior Clerkship Disciplinary Elective Bedside Training for Diagnosis"	Course* "Fundamentals of
SEP	DEC	JAN	MAY	JUN	AUG
Life Cultivation and Healthcare of Chinese Medicine Seasonal Febrile Diseases Therapeutics in Acupuncture and Moxibustion Ophthalmology of Chinese Medicine Fundamentals of Diagnosis Chinese Medicine Clinical Attachment III Bedside Training for "Fundamentals of Diagnosis"	Exam	Golden Chamber Schools of Thought of Chinese Medicine Paediatrics of Chinese Medicine Pharmacology of Chinese Medicine Medicine Chinese Medicine Clinical Attachment III Bedside Training for "Medicine"	Exam		
SEP	DEC	JAN	MAY		
YEAR 6					
YEAR 6 Clinical Clerkship in Mainland China			Exam	Licensing Exam	

\*Disciplinary Elective Courses:

Introduction to Chinese Medical Cultures

Resources and Quality Control of Chinese Medicines

 Chinese Medicine Emergency Medicine: Syndrome Differentiation and Treatment for Acute Illness Related to Chinese Internal Medicine

Analysis of Misdiagnoses in Clinical Cases

Classical Prescriptions and Medical Records

Chinese Medicine and Systems Biomedicine

Traditional Chinese Medicine in Sports Medicine

Intensive Training on Clinical Acupuncture Techniques

Basic and Clinical Toxicology of Chinese Medicines



# "

There are many mysteries in Chinese Medicine which evoke your curiosity and challenge your abilities in this interesting professional programme. I believe you will enjoy this ancient wisdom and modern knowledge system. What you learn from Chinese Medicine will inspire your life and bring you a bright future.

"

**Professor Yibin Feng** Director and Professor, School of Chinese Medicine



# "

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HKU must be credited for being my best anchor. This is where I am supported and nurtured to gain knowledge and develop a professional network, moulded with humbleness and integrity.



Ms Yu Choi Fai BChinMed 2019



### PROFESSIONAL RECOGNITION AND CAREER PROSPECTS

Graduates of the Bachelor of Chinese Medicine programme are eligible to apply for the Chinese Medicine Practitioners Licensing Examination in Hong Kong. Those who have passed the Chinese Medicine Practitioners Licensing Examination are qualified for registration as registered Chinese Medicine practitioners with the Chinese Medicine Council of Hong Kong. Registered Chinese Medicine practitioners can seek employment in Chinese Medicine clinics in both the public and private sector or engage in private practice. They are also qualified to take up research and development posts in Chinese Medicine pharmaceutical trading and manufacturing companies, biotechnology companies, or to work in managerial, marketing, sales, insurance or advertising positions in Chinese Medicine-related businesses. Some may opt to pursue postgraduate studies or become academics in tertiary institutes.

For more information on admissions





HKU HKS Faculty of Medicine School of Chinese Medicine 香港大學中醫藥學院

#### **Enquiries**

◎ 6/F, HKUMed Academic Building, 3 Sassoon Road, Pokfulam, Hong Kong

( 
@hku\_chinesemedicine )



# Experiential, Practical, Interactive

**Bachelor of Pharmacy** 







Our integrative approach and problem-based learning enable pharmacy graduates to apply their scientific and clinical knowledge efficiently when they enter the healthcare profession.

#### **Programme Aims and Objectives**

The Bachelor of Pharmacy (BPharm) programme aims to nurture competent graduates with a solid knowledge of pharmacy as well as the abilities to apply the core knowledge and skills for effective, humane and ethical delivery of pharmaceutical care. They will contribute both to the profession of pharmacy and to the overall health of the patient body by adopting the highest standard of professional practice.

#### **Programme Structure**

The whole programme comprises 258 credit-units\* of courses over a period of four years which shall include the following:

	Field of Study	Credits
_	Pharmacy core courses	192
	Pharmacy elective	12
_	Common core courses	36
	Language courses	18
	Total	258

\*Subject to the approval of the University

#### What is Pharmacy?

Pharmacy is the health profession that links the basic health sciences with the clinical application of drug treatment. It is charged with ensuring the safe and effective use of drugs. Traditionally, pharmacy mainly represented the compounding and dispensing of therapeutic agents. However, modern pharmacy now emphasises the provision of optimal pharmaceutical care to patients. This means the responsible provision of drug therapy to achieve definite outcomes that improve a patient's life expectancy and/or his/her quality of life. These outcomes are:

- (i) the treatment of diseases;
- (ii) the elimination or reduction of symptoms;
- (iii) arresting or slowing the disease process; and
- (iv) disease prevention/health promotion.

As healthcare develops towards the individualised rational use of therapeutic agents, the role and responsibilities of pharmacists are of increasing importance.







## "

Pharmacists can contribute to the safe and effective use of medications through clinical practice, research and teaching. We continue to learn and share what we know with students, colleagues and the community, every step along the way.

"

Dr Esther Chan Associate Professor, Department of Pharmacology and Pharmacy





#### **Role of Pharmacists**

Pharmacists are essentially the experts on drugs. They work as a part of a multidisciplinary healthcare team to provide quality pharmaceutical care to patients, such as providing clinical pharmacy services, recommending appropriate drug choices and monitoring outcomes of drug therapies. Pharmacists are able to practise in a wide variety of areas, including community pharmacies, hospitals, clinics, nursing homes, pharmaceutical industries and regulatory agencies. Pharmacists can specialise in various areas of practice including but not limited to: haematology/oncology, infectious diseases, drug information, critical care and paediatrics.

#### **Programme Features**

#### **Clinical Pharmacy**

With the support of Queen Mary Hospital, students studying at HKU enjoy early clinical exposure and also benefit from the inter-professional collaboration of pharmacists and clinicians through teaching in wards and outpatient clinics.

#### **New Learning Approaches**

Diversified "fit-for-purpose" teaching pedagogies have been adopted to manifest the specific features of the curriculum. As an area of strength of the Medical Faculty, the problem-based learning (PBL) approach is adopted to encourage interdisciplinary inquiry and foster life-long learning skills.

#### **Training in Industrial Pharmacy**

Students have the opportunity to experience this subspecialty to realise the increasing demand of local industry for professional pharmacy services. A wide spectrum of topics on the practical aspects related to industrial pharmacy is taught by experts with extensive work experience in the industry.

### Patient Counselling and Communication Skills

A key characteristic of the programme is to enhance students' proficiency in providing primary healthcare services, including patient education. Students have various opportunities to acquire patient counselling and communication skills step-by-step with a gradual increase in the degree of mastery and in the complexity of the situations encountered.

### Exposure to Chinese Medicine as well as Complementary and Alternative Medicine

The programme equips future pharmacists who practise in Hong Kong with the knowledge of Chinese Medicine as well as Complementary and Alternative Medicines (CAM). These include herbal medicines, nutraceuticals, healthcare products and cosmetics, which are commonly used by many patients in conjunction with Western medicines.





### UNIVERSITY OF ILLINGIS AT CHICAGO COLLEGE OF PHARMACY



#### Enrichment Experiences beyond Hong Kong Pharmacy and International Exchange Programme

The new enrichment module will encourage students to pursue tailored placement at either academic institutions, or community service at non-profit organisations. The programme aims to nourish social-minded students to put what they have learned into practice, contribute to society, and broaden their horizons beyond pharmacy while establishing networks across different sectors and professions. The enrichment experience can enhance pharmacy students' understanding towards the local community and raise their awareness of social issues, inspiring them to actively contribute to the society in their future careers. It also allows students to build cross-sectorial networks to promote social innovations and build positive social capital in Hong Kong. The enrichment experience reflects the outcome of the culmination of student's personal and professional development throughout the BPharm study.

Our BPharm students also have the opportunity to participate in an international exchange programme. Our department has established strong link with the pharmacy departments of Sojo University (Japan), King's College London (UK) and University College London (UK).

#### **Placement, Clerkship and Research Project**

The programme ensures that students are adequately prepared to provide expert service at the community level through placement openings provided by the largest community pharmacy chain stores in Hong Kong.

As part of the curriculum, each pharmacy student will have the chance to gain work experience in different pharmacy settings during term time. Students will rotate among hospital pharmacy, community pharmacy and the pharmaceutical industry for at least one week in each setting during the final year of study. In addition, students will have the opportunity to carry out a research project in a specialised area of their choices, including pharmaceutics, pharmacology, pharmacy practice and clinical pharmacy, under the supervision of our academic staff. The research experience will be critical for the future career of pharmacy students in both the academic and pharmacy workplace.

#### **Opportunities for Interprofessional Learning**

The programme offers students with invaluable opportunities for interprofessional learning throughout the four-year curriculum, including a health research project (HRP), patient care project (PCP) and interprofessional education and collaborative practice (IPECP) with students from the Medicine, Nursing and Chinese Medicine programmes. These interprofessional learning activities will utilise the expertise of students from different backgrounds and foster cooperation between different healthcare professionals in the future.



#### **BPharm Curriculum Structure**

#### YEAR 1

- General Chemistry
- Integrated Course in Basic Sciences: Anatomy, Physiology & Biochemistry
- Research Methods in Pharmacy Practice
- Introduction to Pharmacy

- Drug Discovery
- Core University English
- Common Core Courses

#### YEAR 2

- Pharmaceutical Chemistry
- Dosage Form Design
- · Pharmacy in Body System Series:
  - Cardiovascular & Renal
  - Gastrointestinal System, Drug Kinetics and Toxicities
  - Respiratory System

- Pharmacy Practice: Introduction
- Academic Communication for Pharmacy Students
- Practical Chinese for Pharmacy Students
- Common Core Courses

#### YEAR 3

- Advanced Drug Delivery
- Pharmaceutical Analysis
- Pharmacy Practice: Community Pharmacy
- Pharmacy in Body System Series:
  - Endocrinology
  - Central Nervous System, Musculoskeletal and Connective Tissue Disorders
  - Microbiology and Infectious Diseases
  - Oncology

#### YEAR 4

- Research Methodology and Research Project#
- · Pharmacy Practice: Pharmacy Law and Ethics
- Industrial Drug Development
- · Biopharmaceutical Technology and Future Medicines
- · Pharmacotherapy of Special Populations
- Enrichment Module

- Electives
  - Molecular Medicine\*
  - Molecular Pharmacology\*
  - Epidemiology and Precision Medicine\*
  - Big Data in Healthcare\*
  - Cosmetic Science\*
  - Chinese Medicine for Pharmacy Students\*
  - Cardiopulmonary and Renal Systems\*\*

# All year-4 students have to complete a research project

\* Elective Courses

\*\* Elective Course for articulate to the Bachelor of Medicine and Bachelor of Surgery (MBBS) upon graduation

## "

Using our specialised drug knowledge to help patients optimise their medical treatment is what makes our job as pharmacists so meaningful.

Ms Jody Chu Senior Lecturer, Department of Pharmacology and Pharmacy

#### Articulation to HKU MBBS and completion of two professional degrees in eight years

Starting from 2019/2020, the HKU BPharm Programme now offers an articulation arrangement with the HKU MBBS Programme. Students with an outstanding performance by Semester 1 of Year 3 can choose to attach to the MBBS curriculum for one semester. Upon completion of the BPharm Programme and having satisfied the admission criteria of the MBBS curriculum, students can then be admitted directly to Year 2 and be exempted from the Year 3 enrichment year requirement. Students can, as a result, obtain dual professional degrees in BPharm and MBBS from HKU in the span of eight years.





"



#### Articulation to HKU MBBS programme

Completion of two professional degrees in eight years



#### **Career Prospects for Pharmacy Graduates**

#### Academia / Research

Universities, Higher Education Institutes

- Pharmacy Education (training pharmacist and pharmacy technicians)
- Scientific Research
- Health Promotion
- Knowledge Transfer

#### Pharmaceutical Industry

Local Manufacturers, Multinational Corporation

- Manufacture and Supply
- Quality Assurance (QA)
- Drug Research and Development (R&D)
- Regulatory Affairs
- Business Development
- Medical Information
- · Sales and Marketing
- Pharmacovigilance
- Clinical Trial

#### **Community Pharmacy**

Chain and Independent Pharmacies

- Community Pharmacist
- Primary Care
- Business Management
- Locum

#### Hospital

Hospital Authority, Private Hospitals

- Dispensing
- Pharmacy Intravenous Admixture Service (PIVAS)
- Clinical / Specialist Pharmacist (e.g. Paediatrics, Oncology)
- Radiopharmacy
- Medical Information
- Information Technology
- Clinical Trial
- Drug Procurement

#### **Department Of Health / Drug Office**

- Policy Planning
- Pharmacovigilance
- Inspection
- Drug Registration
- Clinical Service
- Public Health

#### Others

- Medical Writer / Editor
- Veterinary Pharmacist
- Non-Profit Organisation (e.g. visiting pharmacist in elderly homes, healthcare project coordination)
- Further Study (e.g. PhD, Medical Degree)

#### **Professional Recognition**

The programme has been granted accreditation by the Pharmacy and Poisons Board of Hong Kong. Students who have completed a full-time pharmacy degree and one additional year of internship become qualified as registered pharmacists in Hong Kong.

#### **Future Studies**

Graduates can consider a taught Master of Advanced Pharmacy programme or pursue academic pharmacy through research postgraduate study.

For more information on admissions





HKU HKS Faculty of Medicine Department of Pharmacology & Pharmacy 香港大學藥理及藥劑學系

#### **Enquiries**

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# Inspiring Innovators with a Global Perspective

**Bachelor of Biomedical Sciences** 





# **BBiomedSc**

The BBiomedSc programme is global in outlook, with flexibility given to students to tailor their learning towards their area of interest, be it biomedical research, articulation to a healthcare profession, or innovation and entrepreneurship.



#### **Programme Aims and Objectives**

Biomedical sciences cover a wide range of scientific and allied disciplines, including molecular and cell biology, genetics and genome science, bioinformatics, anatomy, physiology, pharmacology, biological and medicinal chemistry, immunology and microbiology, and public and environmental health. The study of biomedical sciences focuses on the relationships between humans, health, and disease, translating biomedical applications of basic sciences to the clinical practices of health services and the healthcare industry.

The 21<sup>st</sup> century is widely regarded as an age of 'biomedicine'. With the foundation of its excellent track record in biomedical research and a strong team of biomedical scientists, the Faculty offers the Bachelor of Biomedical Sciences (BBiomedSc) programme with the aim of nurturing graduates with broad but core knowledge in key biomedical disciplines. They will be well-trained to develop careers in areas such as research in universities, government and medical laboratories; research and

development for the pharmaceutical, diagnostics, medical devices and laboratory instrumentation industries, and management and business development of related industries; clinical trials management; media and communication; and health promotion, hospital administration and healthcare planning. They will also have acquired an excellent foundation for articulation to medical, veterinary sciences and other health-related professional programmes through graduate entry, and for MPhil/PhD studies.

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As a student of biomedical sciences here at the University of Hong Kong, you will be equipped with core and broad knowledge of the biomedical disciplines, preparing you for the challenges in contemporary and innovative health delivery and research.

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Professor Danny Chan Director, School of Biomedical Sciences

#### **Programme Features**

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The BBiomedSc curriculum is designed with a good balance of structure and flexibility, allowing students to plan their study according to their individual interests. The focus of the Biomedical Sciences core courses is to cover:

- The structures and functions of the human body and the processes that are essential to life.
- The basic principles of the processes, mechanisms, patterns of diseases and concepts of diagnostics and therapeutics, and essential analytical methodologies and state-of-the-art contemporary information technology in the field of biomedical sciences.

Students are required to complete a total of 240 credits of courses in the four-year curriculum, of which 96 credits are Biomedical Sciences major courses, 36 credits are Common Core courses, and 18 credits are Language Enhancement courses. The remaining 90 credits are for minors and electives.

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#### **Introductory Courses**

The introductory courses consolidate students' knowledge of anatomy, human biology, human physiology, biochemistry and pharmacology, which are all necessary to understand the basis of human biology and processes that are essential to life. Students are required to complete the following introductory courses:

- Introduction to Human Anatomy and Physiology
- Perspectives in Biochemistry
- Biostatistics
- General Chemistry I/Foundations of Chemistry
- Basic Biomedical Laboratory Techniques

Example courses:

- Human Anatomy
- Biomedical Pharmacology
- Physiological Basis of Health and Disease
- Introduction to Clinical Research
- Exercise Physiology
- Human Genetics
- Fundamentals of Clinical Trial Management
- Physical and Health Benefits of Exercise
- Research Methods in Medicine and Health Sciences

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Active learning is a critical part of student learning – learning about DNA structure through building models is a great experience for first year students.

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### **Advanced Courses**

The advanced courses provide students with a foundation in the cellular, molecular and genetic basis of human diseases, as well as strategies for diagnosis. In the last year of study, students are required to undertake a Final Year Project or the Biomedical Innovation Team Project. The Final Year Project constitutes a capstone experience for students, allowing them to integrate their knowledge and apply experimental and informatics skills to solve defined problems by research. The Biomedical Innovation Team Project provides a capstone experience for students, allowing them to integrate their knowledge in biomedical sciences with knowledge of business and marketing introduced in this course to translate biomedical research to viable products.

Students are required to complete the following advanced courses:

- Molecular Diagnostics Laboratory
- · Final Year Project/Biomedical Innovation Team Project

Plus any four of the following:

- Medical Microbiology
- Molecular Biology of the Cell
- Mechanisms and Pathology of Diseases
- Infection and Immunity
- Biomechanics and Biomedical Technologies
- Sequence Bioinformatics
- Biopharmaceutical Research and Development
- Emerging Infectious
- Molecular Neuroscience
- Biological Basis of Exercise and Health
- Exercise and Chronic Disease

### **Minor Options and Electives**

Students can plan their study with the remaining 90 credits in various manners. They may opt to take a minor and/or electives offered within the BBiomedSc curriculum or offered in other curricula. The minor options offered in the BBiomedSc curriculum include:



### **Modes of Learning**

Students will be exposed to a wide range of learning experiences, varying according to the courses they are enrolled in. These experiences include traditional lectures, laboratory practicals, problem-based learning tutorials, web-based learning as well as research projects.

### **Research and Summer Internship Opportunities**

BBiomedSc students are provided with ample opportunities to experience laboratory-based research, training them for a career in research and development. Under the Summer Internship Programme, they can join the research teams of professoriate members of the Faculty, attach to the research laboratories of top-class universities abroad, or work in an external agency related to field of Biomedical Sciences or in other industries in the summer of Year 1, 2 and 3.

The University's Undergraduate Research Fellowship Programme (URFP) supports students in their pursuit of research and development with the provision of scholarships.

### **Curriculum Structure**

YEAR 1							
Biomedical Core courses (24 crec	lits)	Summer Internship (HK/Overseas/Industrial)					
Common Core courses (24 credit	s)						
Language Enhancement courses	(12 credits)						
SEP	JAN	APR	JUN	AUG			

YEAR 2	YEAR 2							
Biomedical Core courses + Election	ves (42 credits)	Summer Internship (HK/Overseas/Industrial)						
Common Core courses (12 credits	s)							
Language Enhancement course (6 credits)								
SEP	JAN	APR	JUN	AUG				
	-							

	YEAR 3							
Biomedical Core courses + Electives (60 credits) or Overseas Exchange Studies (possible articulation pathways)			Summer Internship (HK/Overseas/Industrial)					
	SEP	JAN	JUN	AUG				

YEAR 4							
Biomedical Core courses + Electives (48 credits) Final Year Project (12 credits) or Innovation Team Project (12 credits)							
SEP JAN APR JUN AUG							

### **Possible Articulation Pathways**



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Science is more than just knowledge, but the art of questioning the world. BBiomedSc provides a variety of articulations, encouraging students to explore the meaning of life beyond textbooks and lectures, equipping them to question the world, pursue their dreams, and strive for excellence.



Fong Hoi Chun BBiomedSc 2019

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Through the biomedical sciences curriculum, we aim to encourage more students to find and develop their passion for research and innovation and nurture an entrepreneurial mindset to translate biomedical research findings into clinical applications that can benefit society.

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Dr Stephanie Ma Associate Professor, School of Biomedical Sciences

### **Professional Recognition and Career Prospects**

Biomedical Sciences graduates will be equipped with practical and transferable skills applicable to a wide range of areas in both the public and private sectors. Major employment areas include research in university and government laboratories; medical development and management for the pharmaceutical, diagnostics, medical devices industries; and hospital and healthcare planning. BBiomedSc students can participate in overseas exchange and/or articulation programmes in the third year of study for obtain professional qualification after graduation.

For more information on admissions





HKU Med LKS Faculty of Medicine School of Biomedical Sciences 香港大學生物醫學學院

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# International Opportunities and Future Exploration

Bachelor of Arts and Sciences in Global Health and Development





# **BASc(GHD)**

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The BASc(GHD) provides students with the interdisciplinary knowledge and competencies necessary to become leaders in developing sustainable solutions to the rapidly-evolving global health and development challenges of today's world.

### **Programme Aims and Objectives**

The Bachelor of Arts and Sciences in Global Health and Development [BASc(GHD)] is a four-year undergraduate programme, with a particular focus on interdisciplinarity in the context of global health and development. The aim of the programme is to nurture future leaders who have the broad foundation of knowledge, skills and competencies to contribute to tackling some of the world's most pressing challenges.

The broad curriculum is delivered in partnership with Faculties across HKU including Architecture, Business and Economics, Law, Science, and Social Sciences. This allows students to develop core blocks of knowledge from a multidisciplinary and international perspective. The programme also encourages the development of the practical skills required to succeed in today's competitive job market as well as knowledge and academic credibility. This is why as part of the programme, students are required to undertake six months' of practical work in a global health and development organisation where they will receive expert support and mentoring, and gain valuable work experience.

### **Programme Features**

The BASc(GHD) combines:

- Basic to intermediate level courses across multiple Faculties (Architecture, Business and Economics, Law, Medicine, Science, Social Sciences)
- Advanced seminars
- Field placement in global health and development organisations
- Mentoring on career choices and leadership
- BASc courses on leadership and big data analytics



### **Field Placement**

A distinctive feature of the programme is the 6-month field placement. Students will gain exposure to real-life challenges and the opportunity to receive mentoring from leading global health and development organisations such as UN agencies, non-governmental organisations (NGOs), philanthropic foundations and more. In addition to offering expert guidance and professional training workshops, HKU provides a limited number of scholarships to support students during their placements.

### Student Placement in 2022/23





### Why was the BASc(GHD) created

Challenges such as chronic and infectious diseases; the development of better and more accessible health systems; the reduction of poverty and inequities; the consequences of societal and conflict-related displacement; and the existential planetary threats of climate change are at the heart of modern health and development. To tackle such complex and rapidly evolving challenges, not only will it require approaches that consider the health of people and the development of communities and countries together, but also ideas that combine and cross disciplines. The BASc(GHD) was created to better prepare the next generation of leaders who will work on (and solve) such deeply important challenges.





Dr Pui Hong Chung Clinical Associate Professor of Practice and BASc(GHD) Programme Director "

We are here to facilitate you in finding out the ambition of this programme and to accompany you in preparing your lifelong career. Welcome to the Voyage from Pokfulam to the World!

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Taking an overseas placement during undergraduate study exposed me to real-life global health and development settings. I am elated to apply interdisciplinary knowledge to my internship and make impactful changes to the community. This rewarding experience has further confirmed my aspiration to advocate for the underprivileged population in the global society.



Dickson Tong BASc(GHD) Year 4

## "



Dr Andrew Thomas Park Lecturer and BASc(GHD) Placement Coordinator

The Capstone is more than the placement alone – it is designed to make students think critically about the work they are doing, and how it relates to global health and development challenges more broadly. Students are also pushed to improve their communication skills by providing timely updates and a presentation to their peers at the end of their placement.

This year we have students working in organisations such as UNICEF, UNDP, IFRC, and a host of NGOs in Bangkok, Singapore, Taipei, Istanbul, New York, and Geneva. In addition to their professional experiences, these students will take away rich memories of exploring new places and cultures. This is what the placement is all about!



### **Interdisciplinary Major**

This 96-credit interdisciplinary major is hosted by the LKS Faculty of Medicine in collaboration with Faculties of Architecture; Business and Economics; Law; Science; and Social Sciences.

### **Anchoring Courses**

Four anchoring courses, one in each year of study, adopt a case-based problem-solving approach to assist students to navigate the interconnectedness among the various academic disciplines. These courses include:

- · Foundations in Global Health and Development
- Globalisation and Health
- Leadership and Advocacy in Global Health and Development
- Global Health Policy

### BASc Core Courses

Three BASc Core Courses will be offered in Year 1 and 2 to cultivate an interdisciplinary mindset in students, to nurture their leadership and advocacy talents, and to hone their skills in cutting-edge big data sciences. These courses include:

- Sustainable Leadership
- Foundations of Human Knowledge
- Essential Skills for Undergraduates: Foundations of Data Science

### **Field Placement / Capstone**

A distinctive feature of the programme is a compulsory capstone, during which students will be placed for a six-month experience facilitated by HKU. Students will gain exposure to real-life global health and development challenges. They will have the opportunity to gain practical experience and receive mentoring from organisations at the forefront of Global Health and Development, which will help pave the path to their career.



### **Foundational Learning Blocks**

### **Arts and Sciences**

- Economics and Finance
- Globalisation
- Interpretation of Statistics
- Research Methods

### **Global and National Issues**

- Global Health Governance
- International Law
- Social and Cultural Priorities
- Major Global Trends

### **Global Development**

- Economics of Development
- International Relations
- · Politics and International Trade
- Population Growth and Development

#### **Global Health**

- Epidemiology
- Global Burden of Disease
- Health and Healthcare Systems
- Planetary Health
- · Risk Prevention and Risk Reduction
- · Principles of Public Health

### **Advanced Learning Blocks**

### Global Governance and Multinational Institutions

- · Politics, Policy-making and Governance
- Roles and Jurisdictions of Multinational and International Organisations

### In-depth Study – Advanced Seminars

- Topics such as:
  - Universal Health Coverage
  - Pandemics and Emergencies
  - Food Systems
  - Healthy Cities
  - Sustainable Developement

### **Curriculum Structure**

Exam    Introductory Economics and Finance (6 credits)    Exam      Health Systems and Financing (6 credits)    Chinese Language Enhancement Course (6 credits)    Foundations of Human Knowledge (6 credits)      Common Core Courses (12 credits)    Common Core Courses (12 credits)    Foundations
DEC JAN MAY JU

YEAR 2: 66 CREDITS					
Globalisation and Health (6 credits) Disciplinary Disciplinary Core Courses* (6 credits) Sustainable Leadership (6 credits) Elective Courses (12 credits)	Exam	Research Methods in Medicine and Health Sciences (6 credits) Global Health Governance (6 credits) Disciplinary Core Course* (6 credits) English in the Discipline Course (6 credits) Elective Courses (12 credits)	Exam		
SEP	DEC	JAN	MAY	JUN	T

YEAR 3: 66 CREDITS					
Global Health Policy (6 credits) Disciplinary Core Course* (6 credits) Elective Courses (24 credits)	Exam	Disciplinary Core Course* (6 credits) Elective Courses (24 credits) International Exchange (optional)	Exam	Capstone in Glc Development (F	obal Health and ield Placement)
SEP	DEC	JAN	MAY	JUN	AUG

YEAR 4: 42 CREDITS					
Capstone in Global Health and Development (Field Placement) (cont'd) (12 credits)		Leadership and Advocacy in Global Health and Development (6 credits) Disciplinary Core Course* (6 credits) Elective Courses (18 credits)	Exam		
SEP	DEC	JAN	MAY	JUN	AUG

#### \*Disciplinary Core Courses include the following:

Population and Development
Theories and Global Trends in Urban Development
Introduction to International Relations
Economic Development
Environmental Change and Socio-political Conflicts
International Organisations
Global Political Economy
Legal Foundations for Global Health and Development
The Role and Impact of Private Sector in Health and Development
Seminar in Major Global Health and Development Challenges
Bringing It All Together: Seminar in Planetary Health

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Global health is interdisciplinary, it is not just about health— it is social, political, and is closely related to the world economy. That's why global health is always relevant and studying BASc(GHD) in HKU allows us to explore the field further.



**Claudia Lam** BASc(GHD) Year 4

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### **Minor Options and Electives**

Students can plan their study with the remaining 90 credits in various manners, such as taking a minor, and/or electives offered within the BASc(GHD) curriculum or those offered in other curricula across Faculties. Within BASc(GHD) curriculum, the minor options offered include:

### **Minor in Global Health**

Example Courses:

- Environmental Change and Socio-political Conflicts
- Theories and Global Trends in Urban Development
- Bringing It All Together: Seminar in Planetary Health

### Minor in Global Development in Asia

Example Courses:

- Economic Development
- Introduction to International Relations
- Global Political Economy



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Modern careers take a variety of tracks, that's why the BASc(GHD) programme gives students the opportunity to embrace curiosity and develop a broad foundation of knowledge and skills combined with the practical experience to succeed in today's increasingly connected world.



Assistant Professor and BASc(GHD) Admissions Tutor

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### **Career Prospects**

Students will have the educational foundation, interdisciplinary skills and practical experience needed to launch a broad range of careers in sectors such as global health, development and economics, industry, academia, government and nongovernmental organisations. The competencies, perspectives, knowledge and skills will enable students to take on technical, academic, strategic and leadership related roles.

### **Entrance Scholarships**

Up to six scholarships shall be awarded each year to local students admitted to the BASc(GHD) programme on the basis of academic merit at the time of admission and interview performance.



For more information on admissions





HKU LKS Faculty of Medicine School of Public Health 香港大學公共衞生學院

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# Leading Through Data to Improve Healthcare

Bachelor of Science in Bioinformatics







### **BSc(Bioinformatics)**

The Bioinformatics programme at HKUMed nurtures the next generation of global leaders in biomedical data science and digital healthcare technology, equipping them to excel in diverse career paths in the healthcare sector, public health services, innovative entrepreneurship and research.

Data science is now central to modern biomedical research and healthcare innovation. Our BSc in Bioinformatics programme provides essential training for future leaders in this cutting-edge discipline.



### **Programme Aims and Objectives**

Bioinformatics cover a wide range of high impact biomedical big data applications, including genomics, precision medicine, single-cell analysis, multi-omic systems biology, digital health technology, mobile health, artificial intelligence (AI) analysis of medical imaging data, electronic health record analysis, and global health and epidemiology.

### **Programme Overview**

The design of this BSc(Bioinformatics) curriculum recognises the wide spectrum of personal interest and diversity in career aspiration of a modern bioinformatics practitioner, ranging from biomedical researchers who are skilled at performing analysis with bioinformatics tools (bioinformatics users), to computational biologists who can perform large-scale data analyses to solve biological questions (bioinformatics scientists), to software developers who build innovative computational or statistical tools for biomedical applications (bioinformatics engineers).



This programme is centred around a series of anchoring courses across the four-year curriculum. These anchoring courses enable vertical and horizontal integration of various courses from diverse disciplines across different year levels. The flexible design of the curriculum allows students to take a multitude of disciplinary elective courses in biomedical sciences, statistics, computer science and biomedical engineering. The programme focuses on essential statistical data analysis skills, key algorithms for biomedical informatics and fundamental concepts in modern genomic and health technology.

Students are required to complete 240 credits of courses in the four-year curriculum, of which 96 credits are major courses, 36 credits are Common Core courses, and 18 credits are Language Enhancement courses. The remaining 90 credits are for minors and electives.

### **Core Courses for Bioinformatics Major**

The core courses are divided into anchoring, foundation, project and disciplinary elective courses.

### Anchoring Courses

Three anchoring courses are the centre-piece of the programme. It is expected that one anchoring course is taken at each of Year 1, 2 and 3/4 of the programme. These courses adopt a case-based problem-solving approach to support interdisciplinary integration of subject-specific content at each year level (horizontal integration). These courses provide a consistent backbone for the curriculum across different year levels (vertical integration). Students are required to complete the following anchoring courses:

- Introduction to Biomedical Data Science
- Artificial Intelligence in Medicine
- Big Data in Biomedical Informatics

#### **Foundation Courses**

These courses, mostly to be taken in Years 1 and 2 of the programme, focus on concepts and practical skills in fundamental topics in bioinformatics, such as biochemistry, mathematics, statistics and computer programming. Students are required to complete the following foundation courses:

- Perspectives in Biochemistry
- Computer Programming
- University Mathematics II
- Multivariable Calculus and Linear Algebra
- Probability and Statistics I
- Probability and Statistics II

### **Project: Capstone Experience**

Each student is required to carry out an in-depth year-long research project in a specialised field of bioinformatics under the guidance of a supervisor who will provide continuous assessment on the student's performance.

### Disciplinary 'Data Science Laboratory' Courses

Taking an experiential learning approach, two innovative 'Data Science Laboratory' courses are offered to allow students to acquire hands-on computer programming and data analysis skills, as well as reinforce the underlying principles of mathematical, statistical and algorithmic concepts through tailored dry-lab practical classes in genomics and digital health.

Students are required to complete one or both of the following courses:

- Genome Sequencing and Analysis
- Digital Health

### **Disciplinary Elective Courses**

A wide range of specialised courses in bioinformatics, biomedical sciences, statistics and computer science can be chosen to fulfil the disciplinary elective courses. Students are required to take three to four courses from over 20 courses. Some example bioinformatics courses include:

- Structural Bioinformatics
- Biomedical Software Systems
- Global Health Informatics
- Biomedical Image Informatics



### **Minor Options and Electives**

Students can plan their study with the remaining 90 credits in various manners. They may opt to take a minor and/or electives offered within the BSc(Bioinformatics) curriculum or offered in other curricula. The minor options offered in the BSc(Bioinformatics) curriculum include:

### **Minor in Digital Health**

Example courses:

- Artificial Intelligence in Medicine
- Digital Health
- Biomedical Signals Processing and
  Modelling in Biomedical Applications

### Minor in Biomedical Data Science

Example courses:

- Sequence Bioinformatics
- Global Health Informatics
- Statistical Machine Learning

### **Modes of Learning**

Students will be exposed to a wide range of learning experiences, varying with courses they are enrolled in. These experiences include traditional lectures, data science laboratory practicals, problem-based learning tutorials, web-based learning, as well as research projects.

### **Internship Opportunities**

BSc(Bioinformatics) students are provided with ample opportunities to gain work experience in the industry as well as local and international research laboratories relating to bioinformatics and health data science. An internship can be taken as a credit-bearing course during the semester, or as a non-credit bearing experience during the summer break. The workplace learning experience will enable students to apply knowledge gained during their studies in real work environments.

### **Curriculum Structure**

YEAR 1	YEAR 2	YEAR 3	YEAR 4		
Anchoring courses (18 credits BIOF1001 Introduction to Biomedical Data Science	BIOF2001 Artificial Intelligence in Medicine	BIOF3001 Big Data in Biomedical Informatics	<b>Capstone course (12 credits)</b> BIOF4001 Final Year Project		
Foundation courses (36 credit BIOC1600 Perspectives in Biochemistry COMP117 Computer Programming MATH1013 University Mathematics II	ts) MATH2014 Multivariable Calculus and Linear Algebra STATS2601 Probability & Statistics I STAT2602 Probability & Statistics II	<b>Disciplinary 'Data Science Lab' courses (6 or 12 cred</b> BIOF3002 Genome Sequencing and Data Analysis BIOF3003 Digital Health			
Common Core (36 credits)	Disciplinary elective courses	(Choose any 3 or 4) (18 or 24 cre	dits)		
Language (18 credits)	Biomedical Sciences	Computer Science	Biomedical Sciences		
	BIOC2600 Basic Biochemistry BIOC 3605 Sequence Bioinformatics BBMS2003 Human Genetics BBMS2007 Essential Molecular Biology BBMS3008 Essential	COMP2113 Programming Technologies	specialty courses BIOF3004 Bioinformation Internation		
		COMP2119 Introduction to Data Structures and Algorithms	BIOF3005 Structural Bioinformatics BIOF3006 Biomedical Software		
		Machine Learning COMP3317 Computer Vision COMP3353 Bioinformatics	Systems BIOF4002 Global Health Informatics BIOF4003 Biomedical Image		
	Proteomics		Informatics		
	BBMS3009 Genome Science	<b>Statistics</b> STAT3600 Linear Statistical Analysis STAT3612 Statistical Machine Learning			
	BBMS4004 Public Health				
	Genetics				
		STAT4602 Multivariate Data Analysis			
		STAT4609 Big Data Analytics			

#### Other electives (90 credits)

Students should ideally minor in Biomedical Data Science, Digital Health, Statistics, Computer Science, or one or more of the Biomedical Sciences minors.

Selection of other electives from across the University is also possible.



### **Professional Recognition and Career Prospects**

BSc(Bioinformatics) graduates will be equipped with practical and transferable skills applicable to a rapidly maturing interdisciplinary field that is of high demand in research, hospital and industry, both locally and internationally. There is growing demand for biotechnology and big data expertise in local and international research centres, as well as growing demand in the hospital and healthcare sector in analysis of clinical and public health data.

Some examples of tasks that graduates would be able to carry out include:

- Interpreting genetic testing results from patients and reporting findings to help clinicians to make treatment decisions.
- Identifying patterns in epidemic outbreak-based electronic records of passengers on public transport in order to guide pandemic prevention strategies.
- Predicting how novel compounds interact with proteins to help identify new targeted therapies for diseases.

For more information on admissions





HKU LKS Faculty of Medicine School of Biomedical Sciences 香港大學生物醫學學院

### **Enquiries**

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### A Passage to Professionalism

Medical education has been at the heart of the University of Hong Kong's history and HKUMed has been a global leader in medical education and research throughout our 135 years of history. Today we look forward to nurturing the next generation of healthcare professionals and leaders.

There are many support systems in place at HKUMed financial, facilities, advice and networks - to help students join various local and overseas learning programmes, including clinical attachments, exchanges, service trips and study tours, in addition to the MBBS Enrichment Year. We strongly believe this well-rounded experience is essential to the personal and professional development of our students.



### Where You Belong

The Medical Campus on Sassoon Road is home to our teaching schools and departments, research laboratories and various state-of-the-art facilities.

The learning environment embodies our goals and we are expanding to provide the finest training facilities for the next generation of healthcare professionals.

The latest addition - 3 Sassoon Road - welcomes you to the Medical Campus with sleek communal spaces and spacious clinical skills laboratories equipped with high-fidelity simulators. The building's nine storeys serve as the home of the School of Chinese Medicine and School of Nursing with facilities tailored to the needs of each School's students.

Our core mission is to enrich the total learning experience for students by creating spaces for them to socialise and connect outside the classroom, which is exemplified by the Cheung Chin Lan Hong Atrium that invites you into the William M.W. Mong Block.

A few floors above this airy space is the Faculty Learning Commons where you can study independently or work collaboratively with peers. This Medical Campus landmark serves as the venue for many events, making it a popular spot for socialising.

For those looking for a quiet place to learn, the Yu Chun Keung Medical Library is a centre of excellence in knowledge management. The Medical Library's significant digital resources

and print collections cover biomedical and health sciences, while new alternate reality and virtual reality tools on the mezzanine level allow you to delve deeper.

Our ambitious development plans centre around our students' whole-person development, which means we care about not only your studies but also your well-being. This goal is embodied by the addition of the new outdoor garden on 1/F of the William M.W. Mong Block, where you can enjoy panoramic sea views and take a breath of fresh air between classes, attesting to our dual emphasis.

Another recent addition, the Faculty Boardroom located in the Faculty Administration Wing, brings us yet closer to this objective by providing ample space for academic conferences and professional seminars.

We are proud to support our diverse student body with the addition of gender-neutral facilities and a new prayer room which gives members of our community a dedicated location to pursue their spiritual lives.

Looking into the future, the Sassoon Road Campus will be transformed into a state-of-the-science campus stretching from Queen Mary Hospital (QMH) on Pokfulam Road at the top, to the Victoria Road roundabout at the bottom. This reinvigorated teaching complex will provide even greater opportunities for our students.

Discover our campus





### Here for You

HKUMed is determined to support your growth and whole-person development. Our Student Wellness Team hosts outreach activities and workshops on mental health awareness and strengthening resilience. On top of these events, the team's Peer Supporter Programme creates a supportive environment to help you thrive in HKUMed's academic environment.

In addition, a team of professional counsellors, clinical psychologists and psychiatrists are available on the Medical Campus to provide confidential, convenient and free clinical services to all HKUMed students. Services available include individual counselling, consultation, crisis intervention, diagnostic assessment, group therapy, psychoeducational programmes and brief psychotherapy.

When it comes to achieving academic and professional goals, all HKUMed undergraduate students are paired with an Academic Adviser. This adviser-advisee relationship lasts for the entire period of study, with the aim of providing you with the support you need to pursue your academic, career and life goals. These exchanges empower our students to think critically, explore available options, evaluate their progress and take personal responsibility for decision-making.

Dedicated advice and guidance also extend to Bachelor of Medicine and Bachelor of Surgery students planning their Enrichment Year or for students in other programmes undertaking overseas exchanges.





### A Home Away From Home

You can apply to live in any of the University of Hong Kong's residential halls or colleges. From the castle-like University Hall to the modern colleges in the Jockey Club Student Village III, there is a residence to suit all tastes and interests. These residences offer you more than simply a place to rest. Each strives to create a unique community that nurtures residents' social development, fosters global citizenship and stimulates intellectual discussion.

Two residences fall under the Faculty's management: the Madam S. H. Ho Residence for Medical Students, which accommodates 163 students in single rooms, and the Patrick Manson Student Residence, which accommodates 124 students in shared bedrooms.

Senior medical students undergoing clinical training at Queen Mary Hospital are required to stay at these residences during specific specialty clerkships. These residences allow more medical and nursing students to be close to the hospital for their clinical training.

The two residences also allow students to interact with and learn from HKUMed alumni through dedicated events.



### **Better Together**

The vast variety of student-run organisations at HKUMed enable you to explore the medical field beyond the classroom. These societies are open to all students within the Medical Faculty to foster a spirit of comradeship and professional unity among future healthcare professionals. You can also join other interest groups and student societies to engage with your peers, volunteer in healthcare-related activities, or simply to have fun!



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As future healthcare professionals and leaders, it is our responsibility to never shy away from the complexities of social awareness and health advocacy. As the IFMSA Regional Director for Asia-Pacific, I was an active catalyst in shaping the global health agenda with the UN, the WHO and other non-state actors. Taking on this position has convinced me to have the courage to believe that young persons can also offer perceptive insights to contemporary dialogues via meaningful youth engagement. I hope that we can further realise the untapped potential medical students have in shaping each other and the world around us.





Mathew Chow MBBS Year 6 and former Regional Director for Asia-Pacific at the International Federation of Medical Students Association

### Student Ambassador Programme

As a member of the HKUMed family, you can apply to represent the Faculty and work alongside other highly motivated individuals through our Student Ambassador Programme. Additionally, the SA programme gives you a chance to improve your confidence through public speaking, develop your voice by creating social media content and join dedicated workshops to build new skills.

Our students are equally active beyond HKUMed. By participating in joint-university societies, you can interact with medical students and professionals from other institutions in the region, allowing you to expand your knowledge and serve the community.

### Talk to our Student Ambassadors

## "

Being the Chairperson of the Medical Society has provided me a world of opportunities to work with leaders of the local medical system as well as healthcare policy-makers. I can get to serve as a bridge of communication by representing medical students in different occasions. I am also given the chance to serve our fellow schoolmates from HKUMed by hosting various activities and improving student welfare. I have made deeper connections with my schoolmates and teachers. I have learnt a lot from them in terms of both medical knowledge and moral virtues. My journey here at HKUMed is indeed meaningful, as it will definitely help me to strive and attain professionalism in the future!



Hillary Chan MBBS Year 3 and former Chairperson of the Medical Society



Allan Chu MBBS Year 4 and Student Ambassador

### "

We all need guidance at some point in our lives, and serving as a Student Ambassador connects me closely with our prospective students, where I could share my insights on studying medicine whilst helping them with challenges in life. This not only enriches their journey towards medicine, but also adds meaning to mine.

### **Financial Support for Higher Dreams**

Scholarships and prizes are awarded to students as a reward for outstanding academic achievement, providing students with financial aid for covering cost of tuition, accommodation, enrichment activity and/or other expenses in university life. Students with financial difficulties are supported to pursue their studies and expand their ambitions.

All of this is made possible with the generous support from a large number of patrons and distinguished graduates.

# A total amount of **HK\$22,000,000+** awarded

1400+ Scholarships and prizes awarded 180+

Schemes designated for HKUMed students

### **Entrance Scholarships**

Upon admission to HKUMed, a wide range of Entrance Scholarships are offered to students with outstanding results in open examinations and to degree holders with excellent academic performance. To promote equal learning opportunities, underprivileged students could be supported by Springboard Scholarships schemes. These schemes are often renewable annually within the normative study period, subject to satisfactory academic performance.

### **Enrichment Scholarships**

Enrichment Scholarships aim to support students' participation in service and humanitarian work, research attachments, exchange programmes or experiential learning activities. The value of scholarship is based on a student's academic merit and financial need. The learning value, duration, location of the activity and other factors will also be taken into account.

### **Prizes**

Every year, a number of prizes are offered to students at HKUMed, in recognition of their academic excellence and community engagement. Prizes are often awarded based on students' exceptional performance in course assignments, essay writings, assessments, competitions, etc.

### **Financial Aid**

Students in need of financial assistance to help cover the costs of their university education will find a number of options available to them. The University offers loans and bursaries for needy students supplemental to the Government Loans and Grants, while HKUMed provides emergency loans to students under special circumstances.


"Apart from confidence, this Scholarship strengthened my ambition to become not only a good, humane doctor, but also an innovative researcher to further advance current clinical treatments; and an inspiring educator to teach future medical students in my 40s or 50s, so as to make myself worthy of your support through this award."

Chan Man Han – MBBS Aspiration Foundation Second Chance Scholarship

"This Scholarship is a great encouragement to my study and it makes me full of hope and get motivated again. It reminds me that I am not alone in the study journey and School of Nursing is always by my side."

**Wu Yuyi – BNurs** Academic Elite Scholarship in Nursing





"The Scholarship allows me to participate in different servicing and outside-classroom learning activities that broaden my horizons and connect with people from all walks of life. These experiences equip me with the skills to become an outstanding and patient-centred pharmacist."

Chen Yu Yu – BPharm Loke Yew Medical Springboard Scholarship

"I am committed to my education and to the public health sector, and the Scholarship has helped me immensely in being one step closer to achieving my goals."



Chan Cheuk Yu Andrea – BASc(GHD) Bachelor of Arts and Sciences in Global Health and Development Entrance Scholarship



"This Graduation Award is not only significant in its monetary value but also in the symbolic support for us just starting in our journey as doctors as the whole society fights together against the pandemic."

Dr Curtis Ng – MBBS 2022 Li Ka Shing MBBS Graduation Award

"The Hostel Grant allows me to cut the travelling time down, giving me more time to prepare for my exams. It also lets me live close to other fellow medical students who have a common goal and tackle the challenge together."



Lam Cheuk Kiu – MBBS Francis Lau Hostel Accommodation Grants for Medical Students

# **Building a Legacy**

Ever since our humble beginnings 135 years ago, successive generations of HKUMed graduates have stepped into top leadership roles in healthcare across Hong Kong.

They have shaped policies as health secretaries, or served as heads of Hong Kong's top hospitals - both public and private, proudly building the territory's world-class medical landscape.

All undergraduate students at HKUMed can benefit from the strength of our alumni network. Many alumni prioritise giving back to HKUMed - as teachers, as mentors, or as engaging guest lecturers.

Assuredly, these interactions with leaders in the field allow you to build the confidence and network to step into leadership roles both locally and globally.



## **Application for Admissions**

If you are a Secondary 6 student in a local school, or if you are currently not a student in any secondary school but wish to apply for admissions on the strength of your Hong Kong Diploma of Secondary Education (HKDSE) results, you should apply through the Joint University Programmes Admissions System (JUPAS). Please refer to the JUPAS Guide for details. Other candidates should contact the Admissions Office of the Registry of the University for the necessary information concerning admissions and submit an application on-line at the following website: www.admissions.hku.hk.

For enquiry, please contact the Registry using the "Contact Us" page on the website or by writing to:

Admissions Office MG14, Ground Floor, Main Building, The University of Hong Kong Pokfulam, Hong Kong



## **Requirements for JUPAS Candidates**

## Bachelor of Medicine and Bachelor of Surgery (JS6456)

Selection for admissions is primarily based on academic merits at the HKDSE (or equivalent), but other factors will also be considered, e.g. performance in interviews and principal's nomination. In addition to satisfying the University entrance requirements, candidates for admissions shall satisfy all of the following requirements in HKDSE:

a) achieve the level of performance in the four core subjects as below:

English	Chinese	Mathematics	Liberal Studies
	Level of Pe	erformance	
4	3	2	2

b) attain at least level 3 in two electives\*, one of which must be:

- i) Chemistry or
- ii) Combined Science with Chemistry as one of the components

The best 6 subjects of HKDSE will be taken into consideration for admissions.





### **Bachelor of Chinese Medicine (JS6482)**

In addition to satisfying the University entrance requirements, candidates for admissions shall satisfy all of the following requirements in HKDSE:

a) achieve the level of performance in the four core subjects as below:

English	Chinese	Mathematics	Liberal Studies
	Level of Pe	erformance	
3	3	2	2

b) attain at least level 3 in two electives\*, one of which must be:

- i) Biology or
- ii) Chemistry or
- iii) Physics or
- iv) Combined Science or
- v) Integrated Science

The best 5 subjects of HKDSE will be taken into consideration for admissions.

## **Bachelor of Nursing (JS6468)**

In addition to satisfying the University entrance requirements, candidates for admissions shall satisfy all of the following requirements in HKDSE:

a) achieve the level of performance in the four core subjects as below:

English	Chinese	Mathematics	Liberal Studies
	Level of Pe	erformance	
3	3	2	2

b) attain at least level 3 in two electives\*

The best 5 subjects of HKDSE will be taken into consideration for admissions.





### Bachelor of Nursing - Advanced Leadership Track (JS6418)

In addition to satisfying the University entrance requirements, candidates for admissions shall satisfy all of the following requirements in HKDSE:

a) achieve the level of performance in the four core subjects as below:

English	Chinese	Mathematics	Liberal Studies
	Level of Pe	erformance	
3	3	2	2

b) attain at least level 3 in two electives\*^

The best 5 subjects of HKDSE will be taken into consideration for admissions.

^Chemistry or Combined Science with Chemistry as one of the components is required for the articulation pathway to MBBS.

## **Requirements for JUPAS Candidates**

## **Bachelor of Pharmacy (JS6494)**

Selection for admissions is primarily based on academic performance in HKDSE (or equivalent), but other factors will also be considered, e.g. performance in interviews and principal's nomination. In addition to satisfying the University entrance requirements, candidates for admissions shall satisfy all of the following requirements in HKDSE:

a) achieve the level of performance in the four core subjects as below:

English	Chinese	Mathematics	Liberal Studies
	Level of Pe	erformance	
4	3	2	2

b) attain at least level 3 in two electives\*, one of which must be:

i) Chemistry or

ii) Combined Science with Chemistry as one of the components

The best 6 subjects of HKDSE will be taken into consideration for admissions.



# Bachelor of Arts and Sciences in Global Health and Development (JS6250)

In addition to satisfying the University entrance requirements, candidates for admissions shall satisfy all of the following requirements in HKDSE:

a) achieve the level of performance in the four core subjects as below:

English	Chinese	Mathematics	Liberal Studies
	Level of Pe	erformance	
4*	3	2	2

b) attain at least level 3 in two electives\*

The best 5 subjects of HKDSE will be taken into consideration for admissions.

<sup>#</sup>Candidates with Level 4 in English Language, if admitted, will be required to take 6 additional credits in Core University English to complete their degree studies.



#### **Bachelor of Biomedical Sciences (JS6949)**

In addition to satisfying the University entrance requirements, candidates for admissions shall satisfy all of the following requirements in HKDSE:

a) achieve the level of performance in the four core subjects as below:

English	Chinese	Mathematics	Liberal Studies
	Level of Pe	erformance	
4	3	2	2

b) attain at least level 3 in two electives\*, one of which must be:

- i) Biology or
- ii) Chemistry or
- iii) Combined Science with Biology as one of the components or
- iv) Combined Science with Chemistry as one of the components

The best 6 subjects of HKDSE will be taken into consideration for admissions.



### **Bachelor of Science in Bioinformatics (JS6470)**

In addition to satisfying the University entrance requirements, candidates for admissions shall satisfy all of the following requirements in HKDSE:

a) achieve the level of performance in the four core subjects as below:

English	Chinese	Mathematics	Liberal Studies
	Level of Pe	erformance	
4	3	4	2

b) attain at least level 3 in two electives\*, one of which must be:

- i) Biology or
- ii) Chemistry or
- iii) Combined Science with Biology as one of the components or
- iv) Combined Science with Chemistry as one of the components

The best 6 subjects of HKDSE will be taken into consideration for admissions.

## **Requirements for Non-JUPAS Candidates**

If you are a local candidate who is applying for admissions on the strength of qualifications other than the Hong Kong Diploma of Secondary Education (HKDSE), you should apply through the Non-JUPAS Admissions Scheme. "Local candidate" means that you DO NOT require a student visa/entry permit to study in Hong Kong. For example, you may be studying:

- overseas;
- at an international school or at a local school in Hong Kong but you are taking a non-local (e.g. International Baccalaureate Diploma or GCE A-level) examination either through your school or as a private candidate. According to an agreement reached between ALL Hong Kong universities and the government, if you are a local school applicant, you must have completed at least six years of secondary education when you enter the University;
- on a sub-degree (i.e. Associate Degree or Higher Diploma) programme at a community college of a UGC-funded institution or at the Hong Kong Institute of Vocational Education (HKIVE);
- a full-time bachelor's degree programme in a local tertiary institution funded by the UGC. Please note however that following UGC's guidelines, inter-institutional transfer, irrespective of whether there is a change of programme or discipline, is generally discouraged, unless there are exceptional circumstances and the following conditions are met:
  - you have successfully completed one year of study on a bachelor's degree programme with excellent academic results; and
  - your application for inter-institutional transfer has been specially approved by the University on the basis of overenrollment.

If you are a non-local candidate, you should also apply through the Non-JUPAS Admissions Scheme. The Faculty accepts applications from eligible non-local students. Competition for places is keen among local students, so non-local candidates must be exceptionally well qualified to gain admissions.

All applicants for the MBBS, BPharm, BNurs, BNurs-ALT and BChinMed programmes, both local and non-local, are required to have a good working knowledge of English and Cantonese.

Non-JUPAS candidates may be shortlisted on the basis of individual merits as shown by their academic records and other non-academic achievements for interview. The interviews are designed to assess their suitability for the programmes, including their motivation, attitude, leadership and general social awareness. Interviews will usually be conducted during the Christmas and Easter holidays and/or in June/July/August. After the interview, offers of admission will be made to candidates who have already satisfied the entrance requirements. Based on the interview performance and the academic results available, conditional offers may also be extended to some non-JUPAS candidates who have entered for an examination or examinations with a view to satisfying the entrance requirements by August. The offers are conditional upon their obtaining of the necessary examination results for submission to the University.



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**Enquiries** 

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