**BBiomedSc Curriculum Structure**

<table>
<thead>
<tr>
<th>Year</th>
<th>Biomedical Core courses (24 credits)</th>
<th>Common Core courses (24 credits)</th>
<th>Summer Biostem (HK / Overseas / Industrial)</th>
<th>Language Enhancement courses (12 credits)</th>
<th>Biomedical Core courses + Electives (42 credits)</th>
<th>Common Core courses (24 credits)</th>
<th>Language Enhancement course (6 credits)</th>
<th>Biomedical Core courses + Electives (60 credits)</th>
<th>Summer Biostem (HK / Overseas / Industrial)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Biomedical Core courses (24 credits)</td>
<td>Common Core courses (24 credits)</td>
<td>Summer Biostem (HK / Overseas / Industrial)</td>
<td>Language Enhancement courses (12 credits)</td>
<td>Biomedical Core courses + Electives (42 credits)</td>
<td>Common Core courses (24 credits)</td>
<td>Language Enhancement course (6 credits)</td>
<td>Biomedical Core courses + Electives (60 credits)</td>
<td>Summer Biostem (HK / Overseas / Industrial)</td>
</tr>
<tr>
<td>Year 2</td>
<td>Undertake Overseas Exchange Studies and/or Research Attachment</td>
<td>Articulation Arrangements (“Satisfying admission criteria of the respective schools”)</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Year 3</td>
<td>The University of Edinburgh, UK</td>
<td>The University of Sydney, Australia</td>
<td>The University of Hong Kong</td>
<td>Bachelor of Veterinary Medicine &amp; Surgery (BVM&amp;S)</td>
<td>Master of Physiotherapy (MPhyp)</td>
<td>Master of Diagnostic Radiography (MDIR)</td>
<td>Bachelor of Medicine and Bachelor of Surgery (MBBS)</td>
<td>Final Year Project (12 credits) or Biomedical Innovation Team Project (12 credits)</td>
<td></td>
</tr>
<tr>
<td>Year 4</td>
<td>Biomedical Core courses + Electives (48 credits)</td>
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</tr>
</tbody>
</table>

**Further Articulation Pathways**

<table>
<thead>
<tr>
<th>BVM&amp;S (3 years)</th>
<th>MPhy and Practicum (1.5 years)</th>
<th>OR</th>
<th>MDIR and Practicum (1.5 years)</th>
<th>OR</th>
<th>MBBS (4 years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prospect: Veterinary Surgeon</td>
<td>Prospect: Physiotherapist (subject to local registration requirements)</td>
<td>OR</td>
<td>Diagnostic Radiographer (subject to local registration requirements)</td>
<td></td>
<td>Prospect: Medical Doctor</td>
</tr>
</tbody>
</table>

**Admission Requirements**

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

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Level of Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Chinese</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>2</td>
</tr>
</tbody>
</table>

(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 HOSOE will be taken into consideration for admission.

**Biomedical Sciences Programme**

**生物醫學學士課程**

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 medical 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 healthcare industry.

The 21st century is widely regarded as an age of ‘biomedicine’. With the backup of its excellent track record in biomedical research and a strong team of biomedical scientists in the basic science and clinical departments, the Faculty offers the Bachelor of Biomedical Sciences (BiomedSci) 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 proceeding to medical, veterinary sciences or other health-related professional programmes through graduate entry, and for MPhil/PhD studies.

生物醫學研究學科包括廣泛的生物科學及相關的學科，例如分子與細胞生物學、遺傳學和基因組學、生物藥物學、藥理學、生理學、藥劑學、生物與藥物化學、免疫學、遺傳學、公共與環境衛生等，生物醫學科學者是人類健康和疾病之間的橋樑，及基礎科學理論應用至醫療服務和醫療儀器行等各方面的臨床實踐。廿一世紀被認為是生物醫學的世紀，香港大學香港醫學學院以其卓越的生物醫學研究實力，加上優秀的教學及科研團隊，開辦香港第一生物醫學的學士課程。課程旨在培育具備生物醫學知識與技能的人才。他們畢業後可投身多項工作發展，包括於學術大學、政府、醫療設備公司及生醫技術機構等實踐研究工作；藥物、醫療用品及儀器等研發及相關產業的管理和業務發展；臨床實習；傳媒、公眾；公共醫療機構政策及行政，等等。他們亦具備相關基礎醫學成績及修讀獸醫、醫療輔助課程或其他碩士、博士課程。

**入學要求**

除了符合大學基本入學要求外，申請人須達到合乎本科入學資格。詳見下表：

(甲) 於以下四個核心科目考取相應或以上的成績水平：

<table>
<thead>
<tr>
<th>學科</th>
<th>等級</th>
</tr>
</thead>
<tbody>
<tr>
<td>英語語文</td>
<td>4</td>
</tr>
<tr>
<td>中國語文</td>
<td>3</td>
</tr>
<tr>
<td>數學</td>
<td>2</td>
</tr>
<tr>
<td>通識教育</td>
<td>2</td>
</tr>
</tbody>
</table>

(乙) 於高一、高二學科中獲取第三級或以上的成績水平。

其中一科為必修，選取二科科目的相同成績

香港大學學士課程之本科成績將被考慮作入學用途。

**Enquiries 諮詢**

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- Instagram IG https://www.instagram.com/hkusbms/
- Phone 電話 (852) 3917-9340
The BBiomedSc curriculum is designed with a good balance of structure and flexibility, allowing students to plan their study straddling sciences and humanities. 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 therapeutic strategies
- the essential analytical methodologies and the state of the art of 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 minor and electives.

### Core Courses for Biomedical Sciences Major

**生物醫學主修核心課程**

The core courses are divided into introductory and advanced levels. The advanced core courses form an integrated and comprehensive curriculum in Biomedical Sciences.

### Introductory Courses 導入課程

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. The content includes modules such as cellular biology, genetics, biochemistry, and pharmacology.

Students are required to complete the following introductory courses (at least six credits each):
- Introduction to Human Anatomy and Physiology
- Perspectives in Biochemistry
- Biostatistics
- General Chemistry & Foundations of Chemistry
- Basic Biomedical Laboratory Techniques

Plus any four of the following (at least six credits each):
- Human Anatomy
- Physiological Basis of Health and Disease
- Fundamentals of Clinical Trials
- Management
- Physical and Health Benefits of Exercise
- Biomedical Pharmacology
- Introduction to Clinical Research
- Exercise Physiology
- Human Genetics
- Research Methods in Medicine and Health Sciences

### Advanced Courses 高級課程

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 their 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 previously acquired, and knowledge in business and marketing introduced in this course to translate biomedical research to viable products.

High-level courses are primarily in areas such as clinical health, bioinformatics and genomics, etc. In the final year, students must choose one advanced course as their final year project.

### Minor Options and Electives 副修及選修課程

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:
- Biomedical Technology & Clinical Research
- Genetics & Genomics
- Kinesiology

There are also elective courses offered under the curriculum:
- Advanced Physiological Science

### Research Training and Exchange Opportunities

BBiomedSc students are provided with ample opportunities to experience laboratory-based research and be trained for a career in research and development. They can join the research teams of professoriate members of the Faculty, and participate in overseas exchange and attach to the research laboratories of top class universities abroad. The Undergraduate Research Fellowship Programme (URFP) of the University supports students in their pursuit of research and development with the provision of scholarships.

Biomedical sciences students have opportunities to participate in research projects within and beyond the University, including overseas exchange and research opportunities in top universities around the world.