THE UNIVERSITY OF HONG KONG
LI KA SHING FACULTY OF MEDICINE

Bachelor of Biomedical Sciences (BBiomedSc)
Programme Objectives and Learning Outcomes

Goals and objectives

The ultimate goal of the BBiomedSc programme is to offer strategic training in the fundamentals of state-of-the-art sciences and to nurture graduates with a broad but core knowledge base of key biomedical disciplines, who also have exposure to a particular area of specialization.

The curriculum has been designed with the aim of achieving a balance of structure and flexibility, so that students are given greater flexibility in planning their study and their needs to plan a study programme straddling sciences and humanities can be accommodated.

The BBiomedSc programme aims at providing appropriate training for modern biomedical scientists and healthcare professionals and nurturing graduates who are well-equipped with practical and transferable skills applicable to a wide range of areas in both public and private sectors. They will be well-trained to develop careers in areas such as research in university, government or medical laboratories; research and development for the pharmaceutical, diagnostics, medical devices and laboratory instrumentation industries; management and business development related to pharmaceutical, diagnostic and therapeutic products; clinical trials management; media and communication; health promotion, hospital administration and healthcare planning in the government sector; and teaching. In addition, the curriculum also provides an excellent base for further study at the level of MPhil/PhD, or seeking admission to a medical programme.

With its well-designed curriculum, strong teaching faculty, challenging internship and career opportunities, the BBiomedSc programme will attract students of high calibre. It will be a strong, sustainable undergraduate programme with international benchmarking and recognition. In the long run, this programme may develop into an undergraduate pre-medical training programme.

Learning outcomes of the BBiomedSc Programme

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<th>Aimed Competences (in accordance with University’s Educational Aims)</th>
<th>Learning Outcomes</th>
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| 1. Capabilities in pursuit of academic/professional excellence, critical intellectual enquiry and life-long learning | Students should be able to:  
• demonstrate solid knowledge of biomedical sciences;  
• develop scientific inquiry and critical thinking skills, including the ability to understand, analyze, and evaluate problems in order to develop solutions;  
• apply the core knowledge and skills for the pursuit of biomedical sciences research; and  
• evaluate research literature. |
| 2. Capabilities in tackling novel situations and ill-defined problems | Students should be able to:  
• make rational hypotheses about ill-defined biomedical sciences problems based on the best available data and evidence; and  
• identify potential approaches or research that will lead to the advancement in biomedical sciences. |
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| 3. Capabilities in critical self-reflection, greater understanding of others, and upholding personal and professional ethics | Students should be able to:  
• engage in relevant and realistic self-appraisal as biomedical scientists and realize one’s own capabilities and limitations. |
| 4. Capabilities in intercultural communication and global citizenship | Students should be able to:  
• understand broader concepts of molecular and health sciences and be able to relate these to scientific issues of cultural, regional and global significance. |
| 5. Capabilities in communication and collaboration | Students should be able to:  
• communicate and collaborate effectively with scientific peers and healthcare professionals orally and in writing; and  
• understand the importance of ethics and integrity of scientific research, and respect the roles and contributions of other members of the team and display capacity for team work. |
| 6. Capabilities in leadership and advocacy for the improvement of human health | Students should be able to:  
• appreciate the role of biomedical sciences in the improvement of human conditions; and  
• participate in the generation, interpretation, application and dissemination of biomedical sciences knowledge which will improve the quality of healthcare. |