**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

| Aimed Competences (in accordance with University's Educational Aims) | | Learning Outcomes |
|---|---|---|
| 1. | Capabilities in pursuit of academic/professional excellence, critical intellectual enquiry and life-long learning | Students should be able to:<br>• demonstrate solid knowledge of biomedical sciences;<br>• develop scientific inquiry and critical thinking skills, including the ability to understand, analyze, and evaluate problems in order to develop solutions;<br>• apply the core knowledge and skills for the pursuit of biomedical sciences research; and<br>• evaluate research literature. |
| 2. | Capabilities in tackling novel situations and ill-defined problems | Students should be able to:<br>• make rational hypotheses about ill-defined biomedical sciences problems based on the best available data and evidence; and<br>• identify potential approaches or research that will lead to the advancement in biomedical sciences. |

| Aimed Competences (in accordance with University's Educational Aims) | | Learning Outcomes |
|---|---|---|
| 3. | Capabilities in critical self-reflection, greater understanding of others, and upholding personal and professional ethics | Students should be able to:<br>♦ 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:<br>♦ 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:<br>♦ communicate and collaborate effectively with scientific peers and healthcare professionals orally and in writing; and<br>♦ 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:<br>♦ appreciate the role of biomedical sciences in the improvement of human conditions; and<br>♦ participate in the generation, interpretation, application and dissemination of biomedical sciences knowledge which will improve the quality of healthcare. |