Annex IV

THE UNIVERSITY OF HONG KONG

Credit Unit Statement (CUS) of Taught Programmes

Faculty / Offering Unit: Li Ka Shing Faculty of Medicine

Programme title: Bachelor of Biomedical Sciences

Applicable student cohort(s): Students admitted in 2025-26 and thereafter

The Bachelor of Biomedical Sciences curriculum consists of eight different types of courses according to the modes of learning. All courses except final year project and elective team-based entrepreneurship project course are of 6-credit, each embracing 150 hours of student learning activity (including both contact hours and all other forms of student learning activity). The year-long final year project and elective team-based entrepreneurship project course each carries 12 credits. The total student learning hours for the 96-credit major is 2400 hours. The total contact hours range from 620 to 720. Assessment is based on a combination of continuous assessment (30%–100%) comprising oral presentation, seminar discussion, tutorial performance, reports, tests, and written examinations (0%–70%).

The eight categories of courses are summarized as follows:

1. Lecture Courses (6 credits each)
   These courses focus on content, including theories and concepts of various biomedical sciences areas such as anatomy, biochemistry, genetics, molecular biology, physiology and pathophysiology, microbiology, pharmacology and so on. They are taught predominantly by lectures (typically 36 hours), with most being supplemented by tutorials (typically 12 hours) and/or laboratory practicals (typically 12 hours). Assessment is conducted through continuous assessment (30%–100%), including tests, assignments, reports, group discussions, presentations and performance in class, and written examinations (0%–70%). Outputs may include test performance, presentations and assignments with the range of word requirement from 500–3,000 words.

2. Laboratory Courses (6 credits each)
   These courses provide the opportunity for students to acquire laboratory experimental skills, and reinforce the underlying principles of basic sciences presented in the lecture courses through scientific and laboratory experiments. A number of lectures (12 hours) are also offered to introduce the theoretical concepts. The contact hours of the laboratory practicals range from 36 to 48 hours. These courses are assessed via continuous assessment (30%–100%) covering tests, laboratory reports, assignments, laboratory performance and skills and written examinations (0%– 70%). Outputs may include tests, assignments, presentation and laboratory reports, with the range of word requirement from 500–3,000 words.

3. Data Science Laboratory Courses (6 credits each)
   These courses provide the opportunity for students to acquire hands-on computer programming or data analysis skills, and reinforce the underlying principles of

mathematical, statistical and algorithmic concepts presented in the lecture or anchoring courses through tailored data science exercises. A number of lectures (12 hours) are also offered to introduce the theoretical concepts. The contact hours of the practical range from 36 to 48 hours, and they could be delivered in person or online. These courses are primarily assessed via continuous assessment (100%) covering tests, laboratory reports, assignments, software products or artifact, and laboratory performance and skills. In particular, assessment may include tests, assignments, software product or artifact, presentation and laboratory reports, with the range of word requirement from 500–3,000 words.

4. Problem-based Learning (PBL) Courses (6 credits each) These courses aim to enhance students' critical thinking and self-learning skills with PBL serving as the major mode of learning. The contact hours of PBL tutorials are 22–27 hours, while other forms of delivery are also adopted, such as lectures (20–28 hours) and workshops (9–12 hours). Assessment is conducted on the basis of continuous assessment (30%–100%) (tests, assignments, performance in PBL tutorials) and examinations (0–70%). The assessable outputs include tests, PBL learning reports, case reports and presentations, with the word requirement from 500– 3,000 words.

5. Web-based Learning Courses (6 credits each)
   These courses are designed to enable the delivery of teaching with the support of the online platform, e.g. some computer-assisted learning programmes, electronic journals, videos and so on. Lectures, tutorials, workshops and practicals (e.g. 20–28 hours for lectures, 6–10 hours for practicals and 9–12 hours for workshops) may also be arranged, though these courses are taught primarily through web-based learning tools. Assessment is conducted by continuous assessment (30–100%) including assignments, tests, presentation and laboratory performance) and written examination (0–70%). Other outputs may include tests, assignments, assessment of laboratory performance, presentation and examination. The range of word requirement is around 500–3,000 words.

6. Internship (6 credits)
   This course will offer students the opportunity to gain work experience in the industry relating to bioinformatics and health data science. The workplace learning experience will enable students to apply knowledge gained during their studies in real work environments. Students have to take on at least 160 hours of internship work either within the University or outside the University with the approval of the course coordinator. The internship will be assessed via a 15 minute oral presentation covering the nature of the job, knowledge/skills applied and self-reflection (40%), as well as a written report (1,000 words) (30%). An evaluation from the immediate supervisor will also contribute to the assessment (30%).

7. Research Project (12 credits)
   The course involves around 300 students' learning hours spreading over 2 semesters. Each student is required to carry out an in-depth study of a specialist field of biomedical sciences under the guidance of a supervisor who will provide continuous assessment on the students' performance (15%). The project entails about 100 hours of students' time to write up a dissertation (10,000 words) and give a professional presentation (20 minutes), which accounts for 60% and 25% of the final assessment, respectively.

8. Team-based Entrepreneurship Project Course (12 credits) The course involves around 300 students' learning hours spreading over 2 semesters. The course includes 108 contact hours in the form of interactive workshops (48 hours) and supervision (60 hours). This course will simulate real-life preseed start up accelerator programmes. It will walk students

through the complete process of setting up a biomedical technology-based start up company. The curriculum will cover topics from evaluating biomedical research output for translation into viable products to the intricacies of setting up a company. Each student will be assessed by a combination of individual assignments (40%) and group work (60%), including oral presentations and written reports (10,000 words).

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