THE UNIVERSITY OF HONG KONG
SCHOOL OF COMPUTING AND DATA SCIENCE

Bachelor of Engineering in Computer Science
(Applicable to students admitted in the 2025-26 academic year and thereafter)

Credit Unit Statement

The Computer Science curriculum offers four types of courses, namely introductory courses, advanced courses, projects and internship, aiming at equipping students with professional skills and knowledge in computer science and mathematics. The total study load and contact hours of the professional core (144 credits of courses) are under the range of 2,880 to 4,320 hours, and 884 to 1,183 hours respectively. The total study load and contact hours of the Major programme (96 credits of courses) are under the range of 1,920 to 2,880 hours, and 572 to 767 hours respectively. The majority of the courses are 6-credit professional courses which are taught through mixed learning modes, including lectures, tutorials and laboratory sessions. The programme also has one 12-credit course Final Year Project as Capstone Experience. A 6-credit course has around 120-180 hours of student learning activities (including both contact hours and all other forms of student learning activities). The 12-credit Final Year Project has around 240 hours of student learning activity. The contact hours and expected learning outcomes for different groups of courses vary according to the learning modes adopted. The programme also has a non-credit bearing Internship. Most of the courses are assessed by a combination of continuous assessment and written examination. The four categories of computer science courses are summarized as follows:

Introductory courses (6 credits)

These courses aim at providing students with a solid foundation in computer science, mathematics, communication skills and complementary studies.

The total contact hours ranging from 39 to 52 hours consist of a combination of lectures (totaling 26 to 39 hours) and tutorials/workshops/laboratory sessions (totaling 13 to 26 hours). The assessment is generally based on problem-solving type assignments, programming exercises, course projects, programming projects, mid-term/written quizzes and written examination. Written output shall not exceed 3,000-5,000 words. Introductory Courses are assessed by a combination of continuous assessment (40%-100%) and examinations (0% to 60%).

Advanced courses (6 credits)

These courses aim at providing students with in-depth knowledge in a broad range of topics in Computer Science.

The total contact hours ranging from 39 to 52 hours consist of a combination of lectures (totaling 26 to 39 hours) and tutorials/workshops/laboratory sessions (totaling 13 to 26 hours). The assessment is generally based on problem-solving type assignments, programming exercises, course projects, programming projects, mid-term/written quizzes, individual and group presentations, papers, performance in tutorial / class discussion and written examination. Written output shall not exceed 3,000-5,000 words (laboratory reports not

included). Advanced Courses are assessed by a combination of continuous assessment (30%-100%) and examinations (0%-70%) except hands-on courses which are assessed by 100% continuous assessment.

Project (12 credits)

Project course (Final Year Project) is under the category of Capstone Experience and aim at training students to integrate and consolidate the knowledge learnt in previous courses with topics range from applied software development to assignments on basic research. The total contact hours range from 26 to 39 hours. Students may work individually or in groups and are generally expected to spend 240 hours on their project in their final year of study. The assessment is 100% in-course and is based on project presentations and written reports totaling 1,500-3,000 words (for interim report) and 3,000-5,000 words (for final report).

Internship (non-credit bearing)

The internship aims at immersing students into a work environment where their technical knowledge can be reinforced in applied situations. It consists of a minimum of 4 weeks of information technology-related placement in an industrial organization. Students are required to submit a training report after the internship. The assessment is based on the employer's feedback and the training report totaling not more than 1,000 words.

Alternatively, students are given the option of joining the one-year Integrated Study-Work Programme on a full-time basis to work in the industry between their third and final years of studies.

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