Hong Kong Baptist University
Curriculum for Minor Programmes

Minor Programme : Computer Science (*COMP)

Course Group	Course	Course Title	Unit	Core (C) / Elective (E)
Computer Science Minor Core Elective Courses (#R-CS-CORE-001)				
	COMP1005	Essence of Computing	3.00	C
	COMP1007	Introduction to Python and Its AI Applications	3.00	C
Computer Science Minor Core Course (#R-CS-CORE-002)				
	COMP2045	Programming and Problem Solving	2.00	C
	COMP2046	Problem Solving Using Object Oriented Approach	2.00	C
	COMP2056	Object-Oriented Programming and Java	3.00	C
Computer Science Minor Elective Courses (#R-CS-ELECT-001)				
	COMP2006	Computer Organization	3.00	E
	COMP2015	Data Structures and Algorithms	3.00	E
	COMP2016	Database Management	3.00	E
	COMP2017	Operating Systems	3.00	E
	COMP2027	Applied Linear Algebra for Computing	3.00	E
	COMP3005	Design and Analysis of Algorithms	3.00	E
	COMP3015	Data Communications and Networking	3.00	E
	COMP3045	Advanced Algorithm Design, Analysis and Implementation	3.00	E
	COMP3046	Advanced Programming for Software Development	3.00	E
	COMP3047	Software Engineering	4.00	E
	COMP3057	Introduction to Artificial Intelligence and Machine Learning	3.00	E
	COMP3065	Artificial Intelligence Application Development	3.00	E
	COMP3116	Modern Software Engineering	3.00	E
	COMP3117	Applied Artificial Intelligence	3.00	E
	COMP4015	Artificial Intelligence and Machine Learning	3.00	E
	COMP4017	Computer and Network Security	3.00	E
	COMP4025	AI-Enabled Interactive Computer Graphics	3.00	E
	COMP4026	Computer Vision and Pattern Recognition	3.00	E
	COMP4035	Database System Implementation	3.00	E
	COMP4036	Digital Media Computing and Communications	3.00	E
	COMP4047	Internet and World Wide Web	3.00	E
	COMP4055	Medical Image Processing and Applications	3.00	E
	COMP4057	Distributed and Cloud Computing	3.00	E
	COMP4066	Principles of Programming Language	3.00	E
	COMP4067	Theory of Computation	3.00	E
	COMP4097	Mobile Computing and Internet of Things	3.00	E
	COMP4105	Web Search Principles and Technology	3.00	E
	COMP4107	Software Design, Development and Testing	3.00	E
	COMP4117	Information Systems: Design and Integration	3.00	E
	COMP4127	Information Security	3.00	E
	COMP4135	Personalized AI and Recommender Systems	3.00	E
	COMP4136	Natural Language Processing and Large Language Models	3.00	E
	COMP4137	Blockchain Technology and Applications	3.00	E
	COMP4146	Prompt Engineering for Generative AI	3.00	E
	COMP4147	Audio and Speech Processing	3.00	E

Remarks:
1. Students should take 15-17 units of courses to fulfill the Minor requirement, at least one course must be at Level 3 or 4.
2. Students are required to take the core elective courses of COMP1005 or COMP1007 from #R-CS-CORE-001. Students of Faculty of Science are required to take an additional 3-unit elective course from #R-CS-ELECT-001 or COMP1007 to replace COMP1005 if it iscounted towards the requirement for their major programme.

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Remarks: 3.Students are required to take the core courses either of COMP2045 and COMP2046 or COMP2056 from #R-CS-CORE-002.

4. Non-Science students are required to take a total of 6 units from #R-CS-CORE-001 and #R-CS-CORE-002, and 9-10 units from #R-CS-ELECT-001.

5. Students of Data and Media Communication (DMC) concentration of Journalism Major, COMP4015 can be counted towards the requirement for Minor Programme in Computer Science if it is not counted towards the requirement for the major programmes.

* 4-Year Curriculum