Sample Study Plan for BEng(CompSc) [for 2021-22 intake] (for students with HKDSE Math Extended Module 1 or 2 ††)

		Semester 1		Semester 2	
Year 1 (60 cu)	UG5 Requirements && (18 cu) Engineering (42 cu)	MATH1851 / MATH1853	Calculus and ordinary differential equations / Linear algebra, probability and statistics	MATH1851 / MATH1853	Calculus and ordinary differential equations / Linear algebra, probability and statistics
		ENGG1300 / ENGG1310	Fundamental mechanics / Electricity and electronics	ENGG1300 / ENGG1310	Fundamental mechanics / Electricity and electronics
		ENGG1330	Computer programming I	ENGG1340	Computer programming II
		CAES1000 / ENGG1320	Core University English / Engineers in the modern world	CAES1000 / ENGG1320	Core University English / Engineers in the modern world
		CC	University Common Core	CC	University Common Core
Year 2 (60 cu)	UG5 Requirements && (24 cu) CS Core (30 cu) Electives (6 cu)	COMP2119	Introduction to data structure and algorithms	COMP2120	Computer organization
		COMP2121	Discrete mathematics	COMP3314	Machine Learning
		COMP2396	Object-oriented programming and Java	Free Elective	Elective course in any disciplines
		CC	University Common Core	CC	University Common Core
		CC	University Common Core	CC	University Common Core
Year 3 (60 cu)	UG5 Requirements && (6 cu) CS Core (30 cu) Electives (24 cu)	COMP3230	Principles of operating systems	COMP3251	Algorithm design##
		COMP3278	Introduction to database management systems	COMP3234	Computer and communication networks
		COMP3297	Software engineering	CS Elective	Elective course in computer science
		CS Elective	Elective course in computer science	Free Elective	Elective course in any disciplines
		CENG9001 / Free Elective	Practical Chinese for engineering students / Elective course in any disciplines	CENG9001 / Free Elective	Practical Chinese for engineering students / Elective course in any disciplines
	Summer (0 cu)	COMP3410	Internship		
Year 4 (60 cu)	UG5 Requirements && (6 cu) Capstone Experience (12 cu) Electives (42 cu)	COMP4801	Final year project	COMP4801	Final year project
		CAES9542	Technical English for computer science	CS Elective	Elective course in computer science
		CS Elective	Elective course in computer science	Free Elective	Elective course in any disciplines
		CS Elective	Elective course in computer science	Free Elective	Elective course in any disciplines
		Free Elective	Elective course in any disciplines	Free Elective	Elective course in any disciplines

†† For students who achieved Level 2 or above in HKDSE Math Extended Module 1 or 2; for other qualifications, please consult Faculty for advice.

Students may take either COMP3251 Algorithm design or COMP3252 Algorithm design and analysis to replace the course COMP3250 Design and analysis of algorithms. COMP3252 is usually offered in the 1st semester.

&& A new UG5 requirement – Successful completion of any other non-credit bearing course(s) for fostering students' whole-person development