Sample Study Plan for BEng(CompSc) with Minor in Computational & Financial Mathematics [for 2018-19 to 2020-21 intakes]

		Semester 1		Semester 2	
Year 1 (60 cu)	UG5 Requirements (18 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
	Engineering (42 cu)	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)	COMP2119 / CC	Introduction to data structures and algorithms / University Common Core	COMP2119 / CC	Introduction to data structures and algorithms / University Common Core
	CS Core (24 cu)	COMP2121	Discrete mathematics	COMP2120	Computer organization
		COMP2396	Object-oriented programming and Java	CC	University Common Core
	CF requirement (12 cu)	CC	University Common Core	CC	University Common Core
		MATH2101 / MATH2211	Linear algebra I / Multivariable calculus	MATH2101 / MATH2211	Linear algebra I / Multivariable calculus
Year 3 (60 cu)	UG5 Requirements (6 cu)	COMP3230	Principles of operating systems	COMP3234	Computer and communication networks
	CS Core (30 cu)	COMP3278	Introduction to database management systems	COMP3250	Design and analysis of algorithms
		COMP3297	Software engineering	CS Elective	Elective course in computer science
	Electives (12 cu)	CENG9001	Practical Chinese for engineering students	CS Elective	Elective course in computer science
	CF requirement (12 cu)	MATH3601 / MATH3906	Numerical analysis / Financial calculus	MATHxxxx	MATH2012 or MATH2241 or an advanced level disciplinary elective course in lieu of MATH1013**
	Summer (0 cu)	COMP3410	Internship		
Year 4 (60 cu)	UG5 Requirements (6 cu)	COMP4801	Final year project	COMP4801	Final year project
	Capstone Experience (12 cu)	CAES9542	Technical English for computer science	CS Elective	Elective course in computer science
		CS Elective	Elective course in computer science	CS Elective	Elective course in computer science
	Electives (24 cu)	CS Elective	Elective course in computer science	CF Elective	Elective course in actuarial studies
	CF requirement (18 cu)	MATH3601 / MATH3906	Numerical analysis / Financial calculus	CF Elective	Elective course in actuarial studies

** Students should consult Faculty of Science Temporary Academic Advisor for the exemption from MATH1013.