

## Sample Study Plan for BEng(CompSc) with Minor in Mathematics [for 2018-19 intake]

		Semester 1		Semester 2	
Year 1 (60 cu)	UG5 Requirements (18 cu)  Engineering (42 cu)	MATH1851 / MATH1853 ENGG1300 / ENGG1310 ENGG1330 CAES1000 / ENGG1320 CC	Calculus and ordinary differential equations / Linear algebra, probability and statistics Fundamental mechanics / Electricity and electronics Computer programming I Core University English / Engineers in the modern world University Common Core	MATH1851 / MATH1853 ENGG1300 / ENGG1310 ENGG1340 CAES1000 / ENGG1320 CC	Calculus and ordinary differential equations / Linear algebra, probability and statistics Fundamental mechanics / Electricity and electronics Computer programming II Core University English / Engineers in the modern world University Common Core
Year 2 (60 cu)	UG5 Requirements (24 cu)  CS Core (24 cu)  MATH requirement (12 cu)	COMP2121 COMP2396 MATH2101 / MATH2211 CC CC	Discrete mathematics Object-oriented programming and Java Linear algebra I / Multivariable calculus  University Common Core University Common Core	COMP2119 COMP2120 MATH2101 / MATH2211 CC CC	Introduction to data structures and algorithms Computer organization Linear algebra I / Multivariable calculus  University Common Core University Common Core
Year 3 (60 cu)	UG5 Requirements (6 cu)  CS Core (36 cu)  Electives (12 cu)  MATH requirement (12 cu)	COMP3230 COMP3278 COMP3297 CENG9001 MATHxxxx	Principles of operating systems Introduction to database management systems Software engineering Practical Chinese for engineering students MATH2012 or MATH2241 or an advanced level disciplinary elective course in lieu of MATH1013	COMP3234 COMP3250 CS Elective CS Elective MATH Elective	Computer and communication networks Design and analysis of algorithms Elective course in computer science Elective course in computer science Elective course in mathematics
	Summer <sup>#</sup> (0 cu)	COMP3410	Internship		
Year 4 (60 cu)	UG5 Requirements (6 cu)  Capstone Experience (12 cu)  Electives (30 cu)  MATH requirement (12 cu)	COMP4801 CAES9542 CS Elective CS Elective MATH Elective	Final year project Technical English for computer science Elective course in computer science Elective course in computer science Elective course in mathematics	COMP4801 CS Elective CS Elective Free Elective MATH Elective	Final year project Elective course in computer science Elective course in computer science Elective course in any disciplines Elective course in mathematics

# Student can take the Internship course in the 2<sup>nd</sup> summer provided they can identify a suitable summer placement (which is approved by the department).