Sample Study Plan for BEng(CompSc) with Minor in Risk Management [4-Year Curriculum]

		Semester 1		Semester 2	
Year 1 (60 cu)	UG5 Requirements (18 + 6 cu) General Engineering (12 + 24 cu)	MATH1851 / MATH1853 PHYS1050 CAES1000 UCC UCC	Calculus and ordinary differential equations / Linear algebra, probability and statistics Physics for engineering students Core University English University Common Core University Common Core	MATH1851 / MATH1853 ENGG1111 ENGG1202 ENGG120x UCC	Calculus and ordinary differential equations / Linear algebra, probability and statistics Computer programming and applications Introduction to computer science 1 General Engineering course * University Common Core
Year 2 (60 cu)	UG5 Requirements (12 + 6 cu) CS Core (12 + 12 cu) CS Electives (0 + 6 cu) RM requirement (6 + 6 cu)	COMP2121 COMP2123 STAT1603 / STAT2601^ UCC UCC	Discrete mathematics Programming technologies and tools Introductory statistics / Probability and statistics I University Common Core University Common Core	COMP2119 COMP2120 COMP2396 STAT2602^ / STAT2603 UCC	Introduction to data structures and algorithms Computer organization Object-oriented programming and Java # Probability and statistics II / Data management with SAS University Common Core
Year 3 (66 cu)	UG5 Requirements (6 + 0 cu) CS Core (18 + 18 cu) CS Electives (0 + 6 cu) RM requirement (6 + 6 cu)	COMP3230 COMP3278 COMP3297 CENG9001 RM Elective	Principles of operating systems Introduction to database management systems Introduction to software engineering Practical Chinese for engineering students Elective course in actuarial studies	COMP3234 COMP3250 COMP3311 CS Elective RM Elective	Computer and communication networks Design and analysis of algorithms Legal aspects of computing Elective course in computer science Elective course in actuarial studies
	Summer (6 cu)	COMP3412	Internship		
Year 4 (54 cu)	UG5 Requirements (6 + 0 cu) Capstone Experience (12 cu) CS Electives (12 + 6 cu) RM requirement (6 + 12 cu)	COMP4801 CAES9542 CS Elective CS Elective RM Elective	Final year project Technical English for computer science Elective course in computer science Elective course in computer science Elective course in actuarial studies	COMP4801 CS Elective RM Elective RM Elective	Final year project Elective course in computer science Elective course in actuarial studies Elective course in actuarial studies

* List of General Engineering Courses:

ENGG1201	Engineering for sustainable development	ENGG1205	Introduction to mechanical engineering
ENGG1203	Introduction to electrical and electronic engineering	ENGG1206	Introduction to biomedical engineering
ENGG1204	Industrial management and logistics		

Academic Advisor's recommendation of CS elective course

^ Students may need to take MATH1013 to satisfy the pre-requisite requirement of STAT2601