

Sample Study Plan for BEng(CompSc) with Minor in Risk Management [for intakes of 2017 and before]

		Semester 1		Semester 2	
Year 1 (60 cu)	UG5 Requirements (12 + 12 cu) General Engineering (18 + 18 cu)	MATH1851 / MATH1853 ENGG1111 ENGG1202 / ENGG120x CAES1000 UCC	Calculus and ordinary differential equations / Linear algebra, probability and statistics Computer programming and applications Introduction to computer science / General Engineering course * Core University English University Common Core	MATH1851 / MATH1853 PHYS1050 ENGG1202 / ENGG120x UCC UCC	Calculus and ordinary differential equations / Linear algebra, probability and statistics Physics for engineering students Introduction to computer science / General Engineering course * University Common Core University Common Core
Year 2 (66 cu)	UG5 Requirements (6 + 12 cu) CS Core (12 + 12 cu) CS Electives (6 + 0 cu) RM requirement (12 + 6 cu)	COMP2121 COMP2123 COMP2396 MATH2014 STAT2601 UCC	Discrete mathematics Programming technologies and tools Object-oriented programming and Java # Multivariable calculus and linear algebra Probability and statistics I University Common Core	COMP2119 COMP2120 STAT2602 UCC UCC	Introduction to data structures and algorithms Computer organization Probability and statistics II University Common Core 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 Software engineering Practical Chinese for engineering students Elective course in risk management	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 risk management
	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 risk management	COMP4801 CS Elective RM Elective RM Elective	Final year project Elective course in computer science Elective course in risk management Elective course in risk management

* List of General Engineering Courses:

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

ENGG1205 Introduction to mechanical engineering
ENGG1206 Introduction to biomedical engineering
ENGG1207 Foundation of biochemistry for medical engineering

Academic Advisor's recommendation of CS elective course