Sample Study Plan for BEng(CompSc) with Minor in Mathematics [3-Year Curriculum]

		Semester 1			Semester 2		
Year 1 (66 cu)	UG5 Requirements (6 + 15 cu) CS Core (21 + 18 cu) Math requirement (6 + 0 cu)	ENGG1002 ENGG1004 ENGG1007 ENGG10xx CAES1515 CENG1001 MATH1111	Computer programming and applications Mathematics IA Foundations of computer science 1 General Engineering course * Professional and technical oral communication for engineers Practical Chinese language course for engineering students Linear algebra	6 3 6 6 3 3 6	CSIS1119 CSIS1120 CSIS1123 CAES1503 UCC UCC	Introduction to data structures and algorithms Computer organization Programming technologies and tools English for computer science University Common Core University Common Core	6 6 6 3 6 6
Year 2 (66 cu)	CS Core (12 + 12 cu) Complementary Studies (0 + 6 cu) Electives (12 + 6 cu) Math requirement (6 + 6 cu)	CSIS0230 CSIS0278 CSIS0396 MATH1211 / MATH1813 Free Elective	Principles of operating systems Introduction to database management systems Object-oriented programming and Java # Multivariable calculus / Mathematical methods for actuarial science Elective course in any disciplines	6 6 6 6 6	CSIS0234 CSIS0250 ELEC2814 CSIS0297 MATH Elective	Computer and communication networks Design and analysis of algorithms Engineering management and society Introduction to software engineering # Elective course in mathematics	6 6 6 6 6
	Summer (6 cu)	CSIS1412	Industrial Training	6			
Year 3 (48 cu)	Capstone Experience (12 cu) Electives (12 + 6 cu) Math requirement (6 + 12 cu)	CSIS0801 CS Elective CS Elective MATH Elective	Final year project Elective course in computer science Elective course in computer science Elective course in mathematics	6 6 6 6	CSIS0801 CS Elective MATH Elective MATH Elective	Final year project Elective course in computer science Elective course in mathematics Elective course in mathematics	6 6 6 6

* List of General Engineering Courses (6 cu each):

ENGG1006	Engineering for sustainable development		ENGG1015	Introduction to electrical and electronic engineering
ENGG1009	Industrial management and logistics		ENGG1018	Introduction to mechanical engineering
ENGG1011	Introduction to biomedical engineering			

Academic Advisor's recommendation of CS elective courses