Sample Study Plan for BEng(CompSc) with 2nd Major in Mathematics [3-Year Curriculum]

			Semester 1			Semester 2	
Year 1 (66 cu)	UG5 Requirements (6 + 3 cu) CS Core (21 + 18 cu) Math Requirement (6 + 12 cu)	ENGG1002 ENGG1004 ENGG1007 ENGG10xx CAES1515 CENG1001	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	CSIS1119 CSIS1120 CSIS1122 CAES1503 MATH1001	Introduction to data structures and algorithms Computer organization Computer programming II English for computer science Fundamentals concepts of mathematics Multivariable calculus	6 6 3 6
Year 2 (72 cu)	UG5 Requirements (12 + 0 cu) CS Core (12 + 12 cu) Complementary Studies (0 + 6 cu) Math Requirement (12 + 12 cu)	CSIS0230 CSIS0278 UCC UCC MATH2201 MATH2301	Principles of operating systems Introduction to database management systems University Common Core University Common Core Introduction to mathematical analysis Algebra I	6 6 6 6 6	CSIS0234 CSIS0250 ELEC2814 MATH Elective MATH Elective	Computer and communication networks Design and analysis of algorithms Engineering management and society Elective course in mathematics Elective course in mathematics	6 6 6 6
Year 3 (72 cu)	Capstone Experience (12 cu) CS Electives (21 + 18 cu) Math Requirement (12 + 18 cu)	CSIS1412 CSIS0801 CSIS0396 CS Elective CS Elective MATH2401 MATH2403	Industrial Training Final year project Object-oriented programming and Java # Elective course in computer science Elective course in computer science Analysis I Functions of a complex variable	6 6 6 6 6	CSIS0801 CSIS0297 CS Elective MATH Elective MATH Elective MATH Elective	Final year project Introduction to software engineering # Elective course in computer science Elective course in mathematics Elective course in mathematics Elective course in mathematics	6 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