

## Sample Study Plan for BEng(CompSc) with Minor in Information Systems [4-Year Curriculum]

		Semester 1		Semester 2	
Year 1 (60 cu)	<b>UG5 Requirements</b> (12 + 12 cu)  General Engineering (18 + 18 cu)	MATH1851 / MATH1853 ENGG1111 <sup>⊕</sup> ENGG1202 / ENGG120x CAES1000 UCC	Calculus and ordinary differential equations <sup>\$\$</sup> / Linear algebra, probability and statistics <sup>\$\$</sup> 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 (60 cu)	<b>UG5 Requirements</b> (6 + 12 cu)  CS Core (12 + 12 cu)  CS Electives (6 + 0 cu)  IS requirement (6 + 6 cu)	COMP2121 COMP2123 COMP2396 ACCT1101 UCC	Discrete mathematics Programming technologies and tools Object-oriented programming and Java # Introduction to financial accounting University Common Core	COMP2119 COMP2120   ECON1210 UCC UCC	Introduction to data structures and algorithms Computer organization   Introductory microeconomics University Common Core University Common Core
Year 3 (66 cu)	<b>UG5 Requirements</b> (6 + 0 cu)  CS Core (18 + 18 cu)  CS Electives (0 + 6 cu)  IS requirement (6 + 6 cu)	COMP3230 COMP3278 COMP3297 CENG9001 IIMT2601	Principles of operating systems Introduction to database management systems Introduction to software engineering Practical Chinese for engineering students Management information systems	COMP3234 COMP3250 COMP3311 CS Elective XXXXxxxx	Computer and communication networks Design and analysis of algorithms Legal aspects of computing Elective course in computer science A prescribed statistics course
	Summer (6 cu)	COMP3412	Internship		
Year 4 (54 cu)	<b>UG5 Requirements</b> (6 + 0 cu)  Capstone Experience (12 cu)  Electives (12 + 12 cu)  IS requirement (6 + 6 cu)	COMP4801 CAES9542 CS Elective CS Elective IIMT3602	Final year project Technical English for computer science Elective course in computer science Elective course in computer science Information systems analysis and design	COMP4801 CS Elective Free Elective IS Elective	Final year project Elective course in computer science Elective course in any disciplines IS Elective (Advanced level) in lieu of IIMT3601

\* 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 could take ENGG1112 in lieu of ENGG1111; please note that ENGG1112 is a two-semester course

\$\$ Students are advised to take MATH1853 before MATH1851 unless they obtained good grade in DSE Extended Module 2