

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

		Semester 1		Semester 2	
Year 1 (60 cu)	UG5 Requirements (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 * <b>Core University English</b> <b>University Common Core</b>	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 * <b>University Common Core</b> <b>University Common Core</b>
Year 2 (60 cu)	UG5 Requirements (6 + 12 cu)  CS Core (12 + 12 cu)  CS Electives (6 + 0 cu)  FIN requirement (6 + 6 cu)	COMP2121 COMP2123 COMP2396 ACCT1101  UCC	Discrete mathematics Programming technologies and tools <b>Object-oriented programming and Java #</b> <b>Introduction to financial accounting</b>  <b>University Common Core</b>	COMP2119 COMP2120  ECON1210 / ECON1220 / xxxxxxx UCC UCC	Introduction to data structures and algorithms Computer organization  <b>Introductory microeconomics / Introductory macroeconomics / A prescribed statistics course</b>  <b>University Common Core</b> <b>University Common Core</b>
Year 3 (66 cu)	UG5 Requirements (6 + 0 cu)  CS Core (18 + 18 cu)  CS Electives (0 + 6 cu)  FIN requirement (6 + 6 cu)	COMP3230 COMP3278 COMP3297 CENG9001 ECON1210 / ECON1220 / xxxxxxx	Principles of operating systems Introduction to database management systems Introduction to software engineering <b>Practical Chinese for engineering students</b> <b>Introductory microeconomics / Introductory macroeconomics / A prescribed statistics course</b>	COMP3234 COMP3250 COMP3311 CS Elective FINA1310	Computer and communication networks Design and analysis of algorithms Legal aspects of computing <b>Elective course in computer science</b> <b>Corporate finance</b>
	Summer (6 cu)	COMP3412	Internship		
Year 4 (54 cu)	UG5 Requirements (6 + 0 cu)  Capstone Experience (12 cu)  Electives (12 + 12 cu)  FIN requirement (6 + 6 cu)	COMP4801 CAES9542 CS Elective CS Elective ECON1210 / ECON1220 / xxxxxxx	Final year project <b>Technical English for computer science</b> <b>Elective course in computer science</b> <b>Elective course in computer science</b> <b>Introductory microeconomics / Introductory macroeconomics / A prescribed statistics course</b>	COMP4801 CS Elective Free Elective FINA2320	Final year project <b>Elective course in computer science</b> <b>Elective course in any disciplines</b> <b>Investments and portfolio analysis</b>

\* 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