

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

		Semester 1			Semester 2		
Year 1 (66 cu)	UG5 Requirements (6 + 9 cu) CS Core (21 + 18 cu) AS requirement (6 + 6 cu)	ENGG1002 Computer programming and applications 6 ENGG1004 Mathematics IA 3 ENGG1007 Foundations of computer science 6 ENGG10xx 1 General Engineering course * 6 CAES1515 Professional and technical oral communication for engineers 3 CENG1001 Practical Chinese language course for engineering students 3 STAT1301 Probability and statistics I 6	CSIS1119 Introduction to data structures and algorithms 6 CSIS1120 Computer organization 6 CSIS1123 Programming technologies and tools 6 CAES1503 English for computer science 3 UCC University Common Core 6 STAT1302 / STAT2315 Probability and statistics II / Practical mathematics for investment 6				
	Year 2 (66 cu) CS Core (12 + 12 cu) Complementary Studies (0 + 6 cu) Electives (6 + 6 cu) AS requirement (6 + 6 cu)	CSIS0230 Principles of operating systems 6 CSIS0278 Introduction to database management systems 6 CSIS0396 Object-oriented programming and Java # 6 UCC University Common Core 6 STAT2303 Probability modelling 6	CSIS0234 Computer and communication networks 6 CSIS0250 Design and analysis of algorithms 6 ELEC2814 Engineering management and society 6 CSIS0297 Introduction to software engineering # 6 AS Elective Elective course in actuarial studies 6				
	Summer (6 cu)	CSIS1412 Industrial Training	6				
Year 3 (48 cu)	Capstone Experience (12 cu) Electives (12 + 6 cu) AS requirement (6 + 12 cu)	CSIS0801 Final year project 6 CS Elective Elective course in computer science 6 CS Elective Elective course in computer science 6 AS Elective Elective course in actuarial studies 6	CSIS0801 Final year project 6 CS Elective Elective course in computer science 6 AS Elective Elective course in actuarial studies 6 AS Elective Elective course in actuarial studies 6				

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

ENGG1006 Engineering for sustainable development
 ENGG1009 Industrial management and logistics
 ENGG1011 Introduction to biomedical engineering

ENGG1015 Introduction to electrical and electronic engineering
 ENGG1018 Introduction to mechanical engineering

Academic Advisor's recommendation of CS elective courses