## Sample Study Plan for BEng(CompSc) with 2nd Major in Information Systems [for intakes of 2017 and before]

| | | Semester 1 | | Semester 2 | |
|---|---|---|---|---|---|
| Year 1 (66 cu) | UG5 Requirements (12 + 6 cu) General Engineering (18 + 18 cu) IS Requirement (6 + 6 cu) | MATH1851 / MATH1853 ENGG1111 ENGG1202 / ENGG120x CAES1000 UCC ACCT1101 / ECON1210 | Calculus and ordinary differential equations / Linear algebra, probability and statistics Computer programming and applications Introduction to computer science / General Engineering course * Core University English University Common Core Introduction to financial accounting / Introductory microeconomics | MATH1851 / MATH1853 PHYS1050 ENGG1202 / ENGG120x UCC ACCT1101 / ECON1210 | Calculus and ordinary differential equations / Linear algebra, probability and statistics Physics for engineering students Introduction to computer science / General Engineering course * University Common Core Introduction to financial accounting / Introductory microeconomics |
| Year 2 (72 cu) | UG5 Requirements (12 + 12 cu) CS Core (12 + 12 cu) CS Electives (6 + 0 cu) IS Requirement (6 + 12 cu) | COMP2121 COMP2123 COMP2396 UCC UCC IIMT2601 | Discrete mathematics Programming technologies and tools Object-oriented programming and Java # University Common Core University Common Core Management information systems | COMP2119 COMP2120 UCC UCC FINA1310 MGMT2401 / MKTG2501 | Introduction to data structures and algorithms Computer organization University Common Core University Common Core Corporate finance Principles of management / Introduction to marketing |
| Year 3 (66 cu) | UG5 Requirements (6 + 0 cu) CS Core (18 + 18 cu) IS Requirement (6 + 12 cu) | COMP3230 COMP3278 COMP3297 CENG9001 IIMT3602 | Principles of operating systems Introduction to database management systems Software engineering Practical Chinese for engineering students Information systems analysis and design | COMP3234 COMP3250 COMP3311 MGMT2401 / MKTG2501 XXXXxxxx | Computer and communication networks Design and analysis of algorithms Legal aspects of computing Principles of management / Introduction to marketing A prescribed Stat course |
| | Summer (6 cu) | COMP3412 | Internship | | |
| Year 4 (66 cu) | UG5 Requirements (6 + 0 cu) Capstone Experience (12 cu) CS Electives (12 + 12 cu) IS Requirement (12 + 12 cu) | COMP4801 CAES9542 CS Elective CS Elective STRA4701 IIMT3603 | Final year project Technical English for computer science Elective course in computer science Elective course in computer science Strategic management Project Management | COMP4801 CS Elective CS Elective IIMT4601 IS Elective | Final year project Elective course in computer science Elective course in computer science Information systems project management IS Elective (Advanced level) in lieu of IIMT3601 |

\* List of General Engineering Courses:

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|---|---|---|---|
| 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 | ENGG1207 | Foundation of biochemistry for medical engineering |

# Academic Advisor's recommendation of CS elective course