

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

| | | Semester 1 | | Semester 2 | |
|-------------------|--|--|--|---|---|
| Year 1 (60 cu) | UG5 Requirements (18 + 6 cu) General Engineering (12 + 24 cu) | MATH1851 / MATH1853 PHYS1050 CAES1000 UCC UCC | Calculus and ordinary differential equations / Linear algebra, probability and statistics Physics for engineering students Core University English University Common Core University Common Core | MATH1851 / MATH1853 ENGG1111 ENGG1202 ENGG120x UCC | Calculus and ordinary differential equations / Linear algebra, probability and statistics Computer programming and applications Introduction to computer science 1 General Engineering course * University Common Core |
| Year 2 (60 cu) | UG5 Requirements (12 + 6 cu) CS Core (12 + 12 cu) CS Electives (0 + 6 cu) FIN requirement (6 + 6 cu) | COMP2121 COMP2123 UCC UCC ACCT1101 | Discrete mathematics Programming technologies and tools University Common Core University Common Core Introduction to financial accounting | COMP2119 COMP2120 COMP2396 UCC FINA1310 | Introduction to data structures and algorithms Computer organization Object-oriented programming and Java # University Common Core Corporate finance |
| 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 / xxxxxxx | Principles of operating systems Introduction to database management systems Introduction to software engineering Practical Chinese for engineering students Introduction to economics I / A prescribed statistics course | COMP3234 COMP3250 COMP3311 CS Elective ECON1210 / xxxxxxx | Computer and communication networks Design and analysis of algorithms Legal aspects of computing Elective course in computer science Introduction to economics I / A prescribed statistics course |
| | 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 FINA2802 | Final year project Technical English for computer science Elective course in computer science Elective course in computer science Investments and portfolio analysis | COMP4801 CS Elective Free Elective FIN Elective | Final year project Elective course in computer science Elective course in any disciplines Finance elective |

* List of General Engineering Courses:

ENGG1201 Engineering for sustainable development
 ENGG1203 Introduction to electrical and electronic engineering
 ENGG1204 Industrial management and logistics

ENGG1205 Introduction to mechanical engineering
 ENGG1206 Introduction to biomedical engineering

Academic Advisor's recommendation of CS elective course