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

## Year 1

### Semester 1
- **UG5 Requirements (12 + 12 cu)**
  - MATH1851 / MATH1853: Calculus and ordinary differential equations
  - ENGG1111: Linear algebra, probability and statistics
  - ENGG1202 / ENGG120x: Computer programming and applications
  - CAES1000 / UCC: Introduction to computer science
- **Semester 1 Review:**
  - Core University English
  - University Common Core
- **Semester 2**
  - MATH1851 / MATH1853: Calculus and ordinary differential equations
  - PHYS1050: Physics for engineering students
  - ENGG1202 / ENGG120x: General Engineering course
  - UCC: University Common Core

## Year 2

### Semester 1
- **UG5 Requirements (6 + 12 cu)**
  - COMP2121 / COMP2123:
    - Discrete mathematics
    - Programming technologies and tools
- **Semester 2**
  - COMP2119 / COMP2120:
    - Introduction to data structures and algorithms
    - Computer organization

## Year 3

### Semester 1
- **UG5 Requirements (6 + 0 cu)**
  - COMP3230 / COMP3278 / COMP3297 / CENG9001 / STAT Elective:
    - Principles of operating systems
    - Introduction to database management systems
    - Software engineering
    - Practical Chinese for engineering students
    - Elective course in statistics

## Year 4

### Semester 1
- **UG5 Requirements (6 + 0 cu)**
  - COMP4801 / CAES9542 / CS Elective / CS Elective / STAT Elective:
    - Final year project
    - Technical English for computer science
    - Elective course in computer science
    - Elective course in computer science
    - Elective course in statistics
  - **Semester 2**
    - COMP4801:
      - Final year project
      - Elective course in computer science
      - Elective course in statistics

* 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
  - ENGG1207: Foundation of biochemistry for medical engineering

# Academic Advisor's recommendation of CS elective course