

Structure and Flowchart for BEng in Computer and Data Engineering 2024/25 Entering Major✕

Updated on: 1 August 2024

Semester

1A

MA1200 or
MA1300 (3 CU) *

GE1354 (3 CU)
Introduction to Electronic
Design
A or B @

CS1302
Introduction to
Computer
Programming
(3 CU) #
A or B

EE1001 (3CU) @
Foundations of Digital
Techniques;
EE1002 (3CU)
Principles of
Electrical
Engineering;
A or B

PHY1202
General Physics
II
(3 CU) #
A or B

EE1004 (3 CU)
Foundations of
Information
Systems and Data
Analysis
A or B @

EE1000 (0 CU)
Programme
Induction

24 CU

1B

MA1201 or
MA1301 (3 CU) *

2A

MA2001 (3 CU)
Multi-variable Calculus
and Linear Algebra

EE3001 (3 CU)
Foundations of
Data Engineering

CS2311 (3 CU) ★
Computer
Programming

EE2000 (3 CU)
Logic Circuit Design

EE1000 (0 CU) ♥
Programme
Induction

21 to
27 CU

2B

EE3211 (3 CU)
Modelling
Techniques

EE2331 (3 CU)
Data Structures
and Algorithms

EE2004 (3 CU)
Microcomputer
Systems

EE2005 (3 CU)
Electronic Devices
and Circuits

2S

3A

EE3210 (3 CU)
Signals and
Systems

EE4146 (3 CU)
Data Engineering and
Learning Systems

EE3206 (3 CU)
Java Programming
and Applications

CS3402 (3 CU)
Database Systems

CS3103 (3 CU)
Operating Systems

EE3220 (3 CU)
System-On-Chip
Design

EE3070 (3 CU)
Design Project
A or B

EE3009 (3 CU)
Data Comms and
Networking

EE3315 (3 CU)
Internet
Technology

EE4090 (0 CU)
Engineering
Training

2S or 3S
(Priority will be
given to Year 3 and
thereafter) Δ

24 to
30 CU

3B

3S

4A & B

5 Final Year Technical Electives (15 CU)
(No more than TWO Level-3 electives)

EE4080 (6 CU)
Project

EE2066 (3 CU) ♣
Engineers in Society

CU: Credit Unit(s)

→ Pre-requisite

- - - - -> Pre-cursor

24 CU

4S

College Requirements

★ College-specified GE courses

@ Major Requirement (Level 1): applicable to Normative 4-year degree students only

✕ Excluding Gateway Education Requirements in English, Chinese Civilization and Area Requirements

♥ Applicable to ASI & II students

★ Not applicable to ASII students

Δ Pre-requisite for EE4090: CS2311 and (EE2000 or EE2005)

♣ "College-specified GE Course" for 4-year degree students but "Major Requirement" for AS I/II students