Structure and Flowchart for BEng in Computer and Data Engineering
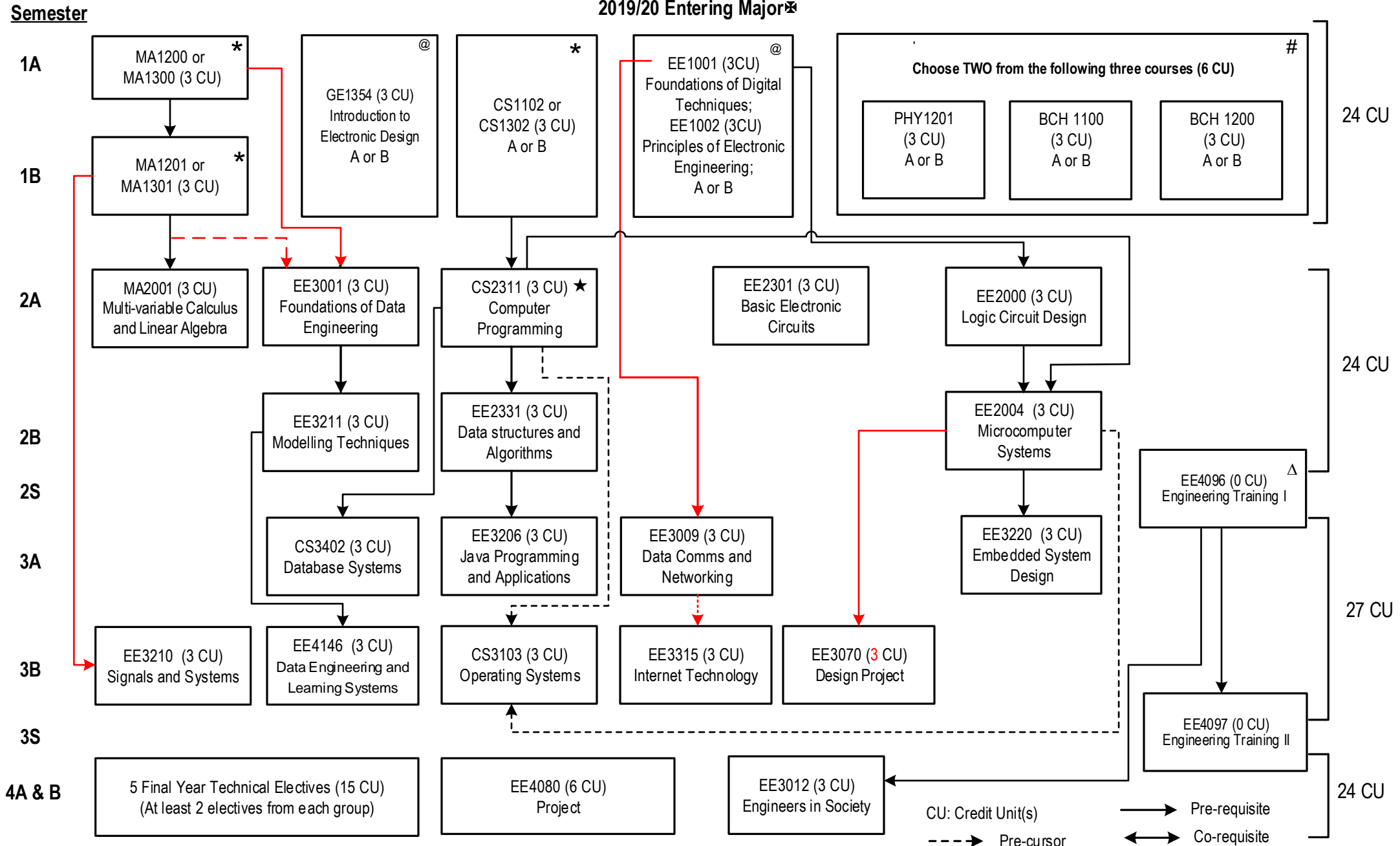## 2019/20 Entering Major ✠

Updated on: 2 July 2020

Semester

1A

MA1200 or MA1300 (3 CU) *

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

CS1102 or CS1302 (3 CU) * A or B

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

Choose TWO from the following three courses (6 CU) #

PHY1201 (3 CU) A or B

BCH 1100 (3 CU) A or B

BCH 1200 (3 CU) A or B

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

EE2301 (3 CU) Basic Electronic Circuits

EE2000 (3 CU) Logic Circuit Design

24 CU

2B

EE3211 (3 CU) Modelling Techniques

EE2331 (3 CU) Data structures and Algorithms

EE2004 (3 CU) Microcomputer Systems

2S

EE4096 (0 CU) Δ Engineering Training I

3A

CS3402 (3 CU) Database Systems

EE3206 (3 CU) Java Programming and Applications

EE3009 (3 CU) Data Comms and Networking

EE3220 (3 CU) Embedded System Design

27 CU

3B

EE3210 (3 CU) Signals and Systems

EE4146 (3 CU) Data Engineering and Learning Systems

CS3103 (3 CU) Operating Systems

EE3315 (3 CU) Internet Technology

EE3070 (3 CU) Design Project

3S

EE4097 (0 CU) Engineering Training II

4A & B

5 Final Year Technical Electives (15 CU) (At least 2 electives from each group)

EE4080 (6 CU) Project

EE3012 (3 CU) Engineers in Society

24 CU

CU: Credit Unit(s)

Pre-requisite

Pre-cursor

Co-requisite

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

Δ EE2000 or EE2301 or CS2311 are pre-requisites for EE4096

★ Not applicable to ASII students