## Bachelor of Engineering (Computer Engineering) with Second Major in Innovation & Design

## Cohort 2016/2017

Modular Requirements	Modular Credits (MCs)
University Level Requirements	
General education modules:	
Quantitative Reasoning (GER1000)	4
Thinking & Expression (GET)	4
Human Cultures (GEH)	4
Singapore Studies (GES)	4
Asking Questions (GEQ1000)	4
Sub-total for University Level Requirements	20
Programme Requirements	
Faculty requirements:	
ES1531 Critical Thinking & Writing <sup>1</sup> (or equivalent)	4
(Double-counted for Second Major in Innovation & Design)	4
CS2101 Effective Communication for Computing Professionals <sup>1</sup> CS2404 Fig. 1. P. C. 1. I.	4
EG2401 Engineering Professionalism  EG4-man For the land.	3
ES1xxxx English <sup>2</sup> Van 4 and a result of the control of	-
Year 1 and core modules:	4
MA1505 Mathematics I  MA1506 Mathematics II  MA1506 Mathematics	4
MA1506 Mathematics II     DC1422 Physica III	4
PC1432 Physics IIE     C64004 Introduction to Computer Fracionaging	4
CG1001 Introduction to Computer Engineering	2
CG1108 Electrical Engineering	4
CG2023 Signals & Systems     CG2374 Book Time Or on time Systems	4
CG2271 Real-Time Operating Systems	4
CG3207 Computer Architecture	4
CS1010 Programming Methodology	4
CS1020 Data Structures & Algorithms I	4
CS1231 Discrete Structures	4
CS2103T Software Engineering <sup>1</sup> TERROR District Figure 1. The second point of t	4
EE2020 Digital Fundamentals	5
EE2021 Devices & Circuits	4
EE2024 Programming for Computer Interfaces	5
EE3204 Computer Communication Networks I	4
ST2334 Probability & Statistics	4
CEG technical electives (at least 8 MCs of depth modules) 3,5	28
CEG design and project modules:	42
EG4301 DCP Dissertation <u>or</u> EG4301A Ideas to Start-up (over 2 consecutive competers)	12
semesters) (Double-counted for Second Major in Innovation & Design and replaces CG4001 BEng	
Dissertation)	
EG3612 Vacation Internship Programme (VIP) 3,4	6
<u>or</u> CP3200 Student Internship Programme (SIP)	0
Sub-total for Programme Requirements	125

## Innovation & Design Programme Faculty of Engineering

Unrestricted Elective Modules (UEM)	
Group A module for Second Major	4
Group B module for Second Major	4
Group C modules for Second Major – Innovation & Enterprise electives	12
• EG3301R DCP Project <sup>5</sup> (over 2 consecutive semesters)	12
(replaces CG3002 Embedded Systems Design Project)	
Sub-total for Unrestricted Elective Modules	32
Total	177

## Notes:

- Students should read CS2101 and CS2103T in the same semester as both modules are twinned. Students in USP, UTRP, and RVRC may read an equivalent module (e.g. ES1501X Academic Expository Writing) in lieu of CS2101. These students should then read CS2103 in lieu of CS2103T.
- <sup>2</sup> Students who have not passed or been exempted from the Qualifying English Test at the point of admission will have to read ES1000 and/or ES1103. ES1103 carries 4 MCs which may be counted as UEM.
- <sup>3</sup> Students in this Second Major are allowed to complete EG3612 (6 MCs) or CP3200 (6 MCs) plus additional technical electives (6 MCs) in lieu of EG3611 (12 MCs) or CP3880 (12 MCs).
  - Students may also opt to do EG3611/CP3880 (12 MCs) in lieu of EG3612/CP3200 (6 MCs) and 6 MCs of technical electives.
- <sup>4</sup> EG3612 or CP3200 is optional for poly-intake students and those in the following special programmes: double degree programmes (DDP), concurrent degree programmes (CDP), Chemical Sciences Programme (CSP), and Global Engineering Programme (GEP).
- <sup>5</sup> Students in this Second Major are allowed to complete additional technical electives (6 MCs) in lieu of CG3002 (6 MCs).