

Name: _____
 Contact No: _____

Student Number: _____

FFG Checklist for CEG Students of AY2017 intake (Poly intake to CEG2 in AY2017):

| | Have I fulfilled the following requirements? | MCs | Tick if fulfilled |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|
| 1. | University Level Requirements (ULR): | 20 | |
| | General Education Module (GEM) Students are required to read 20 MCs, consisting of one GEM from each of the five pillars | | |
| | ▪ Human Cultures GEH1xxx | | |
| | ▪ Asking Questions GEQ1000 | | |
| | ▪ Quantitative Reasoning GER1000 | | |
| | ▪ Singapore Studies GES1xxx | | |
| | ▪ Thinking and Expression GET1xxx | | |
| | Notes: 1. RVRC residents are allowed to read GEM1917 Understanding and Critiquing Sustainability (or equivalent) to fulfill the AQ pillar. 2. From the AY2016/17 student cohort onwards, students enrolled in USP or UTCP are required to read GER1000/a module from the Quantitative Reasoning pillar in partial fulfilment of the ULR. They are not required to read GE modules from the other four pillars, as they will fulfil their ULR via USP/UTCP. | | |
| 2. | Unrestricted Elective Module (UEM): <i>exempted 20 MCs</i> | 32 | |
| | which may be acquired through: | | |
| | i) ES1103 English for Academic Purposes (compulsory, if not exempted) | | |
| | ii) Additional CEG Technical Electives | | |
| | iii) Innovation and Design Centric Pathway (IDCP) and/or NUS Overseas Colleges (NOC) | | |
| | iv) Enhancement programmes e.g. UROP | | |
| | v) Minor programmes | | |
| | vi) Double/Second Major | | |
| | vii) University Scholars Programme (USP) | | |
| 3. | Programme Requirements: | 108 | |
| | CEG Core Modules | | |
| | CG1111 Engineering Principles and Practice I (6 MCs) | | |
| | CG1112 Engineering Principles and Practice II (6 MCs) | | |
| | CS1010 Programming Methodology (4 MCs) | | |
| | CS1231 Discrete Structures (4 MCs) | | |
| | MA1511 Engineering Calculus (2 MCs) | | |
| | MA1512 Differential Equations for Engineering (2 MCs) | | |
| | MA1508E Linear Algebra for Engineering (4 MCs) | | |
| | CG2023 Signals & Systems (4 MCs) | | |
| | CG2027 Transistor-level Digital Circuits (2 MCs) | | |
| | CG2028 Computer Organization (2 MCs) | | |
| | CG2271 Real-Time Operating Systems (4 MCs) | | |
| | CS2040C Data Structures and Algorithms (4 MCs) | | |
| | CS2101 Effective Communication for Computing Professionals (4 MCs) - <i>exempted</i> | | |
| | CS2113/T Software Engineering & Object-Oriented Programming (4 MCs) | | |
| | EE2026 Digital Design (4 MCs) | | |
| | EG240# Engineering Professionalism (2 MCs) | | |
| | ST2334 Probability & Statistics (4 MCs) | | |
| | CG3207 Computer Architecture (4 MCs) OR CS3230 Design and Analysis of Algorithms (4 MCs) | | |
| | EE3204 Computer Communication Networks I (4 MCs) | | |

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|
| In lieu of industrial attachment (10 MCs), students may read a combination of the following, totaling (at least) 10 MCs: - PC1222 Fundamentals of Physics II (4 MCs) - MA1301 Introductory Mathematics (4 MCs) - CEG technical elective - 3-months internship (CP3200 SIP/EG3612 VIP) | | |
| CG4002 Computer Engineering Capstone Project (8 MCs) | | |
| CEG Technical Electives Minimum of five Technical Electives (at least 20 MCs in total) as follows: Depth (D) requirements - at least THREE technical depth electives | | |
| Note: All five technical electives must add up to (at least) 20 MCs. If not, student has to take more technical electives to make up to 20 MCs. | | |
| Have I fulfilled all requirements to graduate? | | 160 (min) |

Other information:**1. Poly graduates admitted to CEG in AY2017/18:**

1.1 *Poly students with the relevant Diploma Plus certificate in Mathematics (i.e. exempted from MA1301) will need to read an additional Technical Elective/internship (in lieu of MA1301).

1.2 Poly students admitted to CEG in AY2017/18, will follow CEG AY2017/18 curriculum and may be eligible for the following exemptions (24 - 34 MCs), depending on his/her Diploma from the polytechnic.

| | |
|------------------------------------------------------------|-----------------------|
| • Unrestricted Elective Module (UEM) x 5 | 20 MCs |
| • Programme Requirements | (up to) 14 MCs |
| CS2101 Effective Communication for Computing Professionals | 4 MCs |
| CG1111 Engineering Principles and Practice I | 6 MCs |
| CS1010 Programming Methodology | 4 MCs |

2. Limit on Level 1000 modules:

Students should not read more than 60 MCs of level 1000 modules towards their degree requirements (minimum of 160 MCs for graduation). Refer to <http://www.nus.edu.sg/registrar/education-at-nus/undergraduate-education/continuation-and-graduation-requirements.html>.

Note: The 12 MCs UEMs (out of total 20 MCs) granted to diploma holders will not count against the limit on level 1000 modules.

3. S/U Option (AY2017 intake):

Please refer to the following links for more information on S/U Option:

<https://myportal.nus.edu.sg/studentportal/academics/ug/su-homepage.html>

<https://myportal.nus.edu.sg/studentportal/academics/ug/cohort-201617-and-after.html>

4. Module Type Code:

| | | | |
|----|-------------------------------------------|----|-------------------------------------------|
| 11 | TECHNICAL ESSENTIAL | G9 | GE MODULES FOR COHORT 2015 ONWARDS |
| 12 | TECHNICAL ELECTIVE | MB | DOUBLE COUNT (MINOR & ULR BREADTH) |
| 17 | MINOR MODULE | ME | DOUBLE COUNT (MINOR & TECHNICAL ELECTIVE) |
| 27 | UEM (UNRESTRICTED ELECTIVE OUTSIDE MAJOR) | MU | DOUBLE COUNT (MINOR & UEM) |

For conversion of module type code, please refer to http://www.eng.nus.edu.sg/ugrad/SI_Module_declaration.html.

5. Three pathways for AY2017 intake

Refer to separate document.