Name: _____   Student Number: _____

Contact No: _____

FFG Checklist for CEG Students of AY2015 intake
(Direct entry to CEG1 in AY2015 and Common Engrg streamed to CEG2 in AY2016):

	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 GEQ1xxx		
	▪ Quantitative Reasoning GER1000		
	▪ Singapore Studies GES1xxx		
	▪ Thinking and Expression GET1xxx		

	Notes:
	 1. The ULR do not apply to University Scholars Programme (USP); USP students will read USP modules in lieu.
	 2. As the AQ pillar is not ready to be launched, students from AY15 intake
	    - are required to read an additional module from either HC, SS or T&E pillar
	    - who are RVRC residents are allowed to read GEM1917 Understanding and Critiquing Sustainability to fulfill the AQ pillar.
	 3. Students from AY15 intake should take GET1021 Critical Thinking & Writing to (double) count towards the Faculty's communications requirement, and fulfill the T&E pillar.		

2.	**Unrestricted Elective Module (UEM):**	**16**	

	which may be acquired through:
	 i) Enhancement Programmes
	    ▪ EG1603/EG2603 Technopreneurship & Incubation Prg (TIP) – 2 MCs each
	    ▪ EG2604 Innovation Prog (IP) – 4 MCs
	    ▪ EG2605 Undergraduate Research Opportunities Prog (UROP), CP3208, CP3209 – 4 MCs
	    ▪ EG2606A/B Independent Work Prog (IWP) – 2, 4 MCs respectively
	 MCs of each prog can be obtained <u>only once</u>. For more info, please refer to
	 http://www.eng.nus.edu.sg/undergrad/epmc/ep.html.		

	ii) Business Requirements Students are <u>encouraged</u> to read at least 1 business/management module from the School of Business (SoB) or the Engineering Technology Management Division (ETM), and use the business module to meet UEM requirements.		

	iii) Recommended Modules
	    Recommended UEMs: ACC1002X / BSP1004X / BSP1005 / DSC2006 / EC1301 / MKT1003X / MNO1001X / SC1101E.
	    Other modules offered as UEM (module type code 27) by other faculties can also be taken by students to fulfill their UEM requirements.		

	iv) Minor Programmes
	    A student may use up to 16 MCs to satisfy their UEM (and also to fulfill the Minor) requirements.
	    For more info, please refer to http://www.eng.nus.edu.sg/ugrad/SP_minors.html.		

	v) Other CEG Technical Electives
	    For students who wish to achieve greater specialisation within Computer Engineering.
	    CEG students can also take other relevant modules (not listed in the CEG Master-list of Technical Electives) to fulfill UEM requirements. Refer to the advisory via
	    http://www.ceg.nus.edu.sg/students/third_year.html.		

	vi) University Scholars Programme (USP) For more info, please refer to http://www.eng.nus.edu.sg/ugrad/SP_usp.html.		
	vii) NUS Overseas Colleges (NOC) For more info, please refer to http://www.overseas.nus.edu.sg/programmes/full-year-programmes.		

	viii) EG1109 Statics & Mechanics of Materials (4 MCs) & **MLE1101 Introductory Materials Science & Engineering (4 MCs)** will count as UEM for common engineering students (of AY2015 intake) <u>streamed to CEG2 in AY2016</u>.		
3.	**Programme Requirements:**	**124**	
	CEG Core Modules CG1001 Introduction to Computer Engineering (2 MCs)		
	CG1108 Electrical Engineering (4 MCs)		
	CG2023 Signals & Systems (4 MCs)		
	CG2271 Real-Time Operating Systems (4 MCs)		
	CG3207 Computer Architecture (4 MCs)		
	CS1010 Programming Methodology (4 MCs)		
	CS1020 Data Structures and Algorithms I (4 MCs)		
	CS1231 Discrete Structures (4 MCs)		
	CS2101 Effective Communication for Computing Professionals (4 MCs)		
	CS2103T Software Engineering (4 MCs)		
	EE2020 Digital Fundamentals (5 MCs)		
	EE2021 Devices & Circuits (4 MCs)		
	EE2024 Programming for Computer Interfaces (5 MCs)		
	EE3204 Computer Communication Networks I (4 MCs)		
	EG2401 Engineering Professionalism (3 MCs)		
	HR2002 Human Capital in Organizations (3 MCs)		
	MA1505 Mathematics I (4 MCs)		
	MA1506 Mathematics II (4 MCs)		
	PC1432 Physics IIE (4 MCs)		
	ST2334 Probability & Statistics (4 MCs)		
	EG3601 Industrial Attachment Prog or CP3880 Adv Tech Attachment Prog (12 MCs)		
	CEG Projects CG3002 Embedded Systems Design Project (6 MCs)		
	EE3031 Innovation & Enterprise I (4 MCs)		
	CG4001 B.Eng. Dissertation (12 MCs)		
	CEG Technical Electives Minimum of 3 Technical Electives (at least 12 MCs in total) as follows: Depth (D) requirements - at least 2 technical depth electives from any concentration		
	Note: All 3 technical electives must add up to (at least) 12 MCs. If not, student has to take more technical electives to make up to 12 MCs.		
	Have I fulfilled all requirements to graduate?	**160 (min)**	

Other information:

1. **Mapping of EG1108 (3 MCs) to CG1108 (4 MCs)**
    This is applicable to common engineering students (of AY2015 intake) who are <u>streamed to CEG in Year 2</u> (i.e. sem 1, AY16/17) and have read EG1108. While EG1108 (3 MCs) may be mapped to CG1108 (4 MCs), affected students will need to make up for the 1 MC shortage (due to the mapping) i.e. minimum MCs for graduation will still remain at 160.

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.eng.nus.edu.sg/ugrad/SI_faq.html#A9.

3. **S/U Option (AY2015 intake):**
    Please refer to the following links for more information on S/U Option:
    http://www.eng.nus.edu.sg/ugrad/SI_su_policies2014.html
    http://www.nus.edu.sg/registrar/edu/UG/graduation.html#SU
    https://share.nus.edu.sg/registrar/student/info/SU-FAQ-fromAY2004.pdf

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.