

Name: \_\_\_\_\_

Student Number: \_\_\_\_\_

Contact No.: \_\_\_\_\_

**FFG Checklist for CEG Students of AY2015 intake (Poly direct-entry to CEG2 in AY2015):**

	Have I fulfilled the following requirements?	MCs	Tick if fulfilled
1.	<b>University Level Requirements (ULR):</b>	<b>20</b>	
	<b>General Education Module (GEM)</b> Students are required to read 20 MCs, consisting of one GEM from each of the five pillars		
	<ul style="list-style-type: none"> <li>▪ Human Cultures GEH1xxx</li> <li>▪ Asking Questions GEQ1xxx</li> <li>▪ Quantitative Reasoning GER1000</li> <li>▪ Singapore Studies GES1xxx</li> <li>▪ Thinking and Expression GET1xxx</li> </ul>		
	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.	<b>Unrestricted Elective Module (UEM): <i>exempted 16 MCs</i></b>	<b>16</b>	
	which may be acquired through:		
	<b>i) Enhancement Programmes</b> <ul style="list-style-type: none"> <li>▪ EG1603/EG2603 Technopreneurship &amp; Incubation Prg (TIP) – 2 MCs each</li> <li>▪ EG2604 Innovation Prog (IP) – 4 MCs</li> <li>▪ EG2605 Undergraduate Research Opportunities Prog (UROP), CP3208, CP3209 – 4 MCs</li> <li>▪ EG2606A/B Independent Work Prog (IWP) – 2, 4 MCs respectively</li> </ul> MCs of each prog can be obtained <u>only once</u> . For more info, please refer to <a href="http://www.eng.nus.edu.sg/undergrad/epmc/ep.html">http://www.eng.nus.edu.sg/undergrad/epmc/ep.html</a> .		
	<b>ii) Business Requirements</b> 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 fulfill UEM requirements.		
	<b>iii) Recommended Modules</b> 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.		
	<b>iv) Minor Programmes</b> 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 <a href="http://www.eng.nus.edu.sg/ugrad/SP_minors.html">http://www.eng.nus.edu.sg/ugrad/SP_minors.html</a> .		
	<b>v) Other CEG Technical Electives</b> 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 <a href="http://www.ceg.nus.edu.sg/students/third_year.html">http://www.ceg.nus.edu.sg/students/third_year.html</a> .		
	<b>vi) University Scholars Programme (USP)</b> For more info, refer to <a href="http://www.eng.nus.edu.sg/ugrad/SP_usp.html">http://www.eng.nus.edu.sg/ugrad/SP_usp.html</a> .		
	<b>vii) NUS Overseas Colleges (NOC)</b> For more info, refer to <a href="http://www.overseas.nus.edu.sg/programmes/full-year-programmes">http://www.overseas.nus.edu.sg/programmes/full-year-programmes</a> .		

3.	<b>Programme Requirements</b>	<b>124</b>	
	<b>CEG Core Modules</b>		
	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) - <i>exempted</i>		
	CS2103/T 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) - <i>exempted</i>		
	MA1505 Mathematics I (4 MCs)		
	MA1506 Mathematics II (4 MCs)		
	PC1432 Physics IIE (4 MCs)		
	ST2334 Probability & Statistics (4 MCs)		
	[In lieu of 6-month industrial attachment]		
	PC1222 Fundamentals of Physics II (4 MCs)		
	MA1301 Introductory Mathematics (4 MCs)*		
	UEM (4 MCs) - <i>exempted</i>		
	<b>CEG Projects</b>		
	CG3002 Embedded Systems Design Project (6 MCs)		
	EE3031 Innovation & Enterprise I (4 MCs)		
	CG4001 B.Eng. Dissertation (12 MCs)		
	<b>CEG Technical Electives</b>		
	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.		
	<b>Have I fulfilled all requirements to graduate?</b>	<b>160 (min)</b>	

**Other information:**1. **Poly graduates admitted to CEG in AY2015/16:**

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 (in lieu of MA1301).

1.2 Poly students admitted to CEG in AY2015/16, will follow CEG AY2015/16 curriculum and may be eligible for the following exemptions (up to 35 MCs), depending on his/her Diploma from the polytechnic.

- **Unrestricted Elective Module (UEM) x 5** **20 MCs**
  - **Programme Requirements** **(up to) 15 MCs**
    - CS2101 Effective Communication for Computing Professionals 4 MCs
    - HR2002 Human Capital in Organizations 3 MCs
    - CG1108 Electrical Engineering OR CS1010 Programming Methodology 4 MCs
- [Students from Ngee Ann Polytechnic, with Minor in Business Management, may also be exempted from EE3031 Innovation & Enterprise (4 MCs).]

For details on the poly exemptions based on the specific accredited diplomas, please refer to <http://www.ceb.nus.edu.sg/admissions/>.

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](http://www.eng.nus.edu.sg/ugrad/SI_faq.html#A9).

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 (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.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](http://www.eng.nus.edu.sg/ugrad/SI_Module_declaration.html).