

Name: \_\_\_\_\_  
 Contact No: \_\_\_\_\_

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

**FFG Checklist for CEG Students of AY2014 intake  
 (Direct entry to CEG1 in AY2014 and  
 Common Engr streamed to CEG2 in AY2015):**

	Have I fulfilled the following requirements?	MCs	Tick if fulfilled
1.	<p><b>University Level Requirements (ULR):</b></p> <p><b>(i) GEM/SS/ULR Breadth</b>            Students are required to read 20 MCs of the ULR consisting of:            ▪ GEK1549 Critical Thinking &amp; Writing (4 MCs)            ▪ 1 GEM from Subject Group B: Humanities &amp; Social Sciences (4 MCs)            ▪ 1 SS (4 MCs)            ▪ 2 ULR Breadth outside student's Faculties i.e. FoE and SoC (8 MCs)            Note: Singapore Studies (SS) module – SSA2204 or SSA2211 (recommended)            Recommended ULR Breadth outside student's Faculties: ACC1002X / BSP1004X / BSP1005 / DSC2006 / EC1301 / MKT1003X / MNO1001X / SC1101E. These recommended ULR Breadths can also be used to meet <b>UEM requirements</b>; see section 2(ii) below.            Other modules offered as ULR Breadth (module type code <b>U9</b>) by other faculties (excluding those offered by FoE and SoC) can also be taken by students to fulfill their ULR Breadth requirements.</p> <p><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). Students may use this business module to meet <b>ULR Breadth outside student's Faculties</b> <u>or</u> UEM requirements; see section 2(iii) below.</p> <p><b>(iii) Minor Programmes</b>            A student may use up to <b>8 MCs to satisfy their ULR Breadth outside student's Faculties</b> (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>.</p> <p><b>(iv) University Scholars Programme (USP)</b>            For USP students, please 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>.</p>	<b>20</b>	
2.	<p><b>Unrestricted Elective Modules (UEM):</b></p> <p>which may be acquired through:</p> <p><b>(i) Enhancement Programmes</b></p> <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> <p>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>.</p> <p><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). Students may use this business module to meet <b>UEM requirements</b> <u>or</u> ULR Breadth outside student's Faculties; see section 1(ii) above.</p> <p><b>(iii) Recommended Modules</b>            Recommended UEMs: ACC1002X / BSP1004X / BSP1005 / DSC2006 / EC1301 / MKT1003X / MNO1001X / SC1101E. These recommended UEMs can also be used to meet ULR Breadth; see section 1(i) above.            Other modules offered as UEM (module type code <b>27</b>) by other faculties can also be taken by students to fulfill their UEM requirements.</p>	<b>16</b>	

	<p><b>(iv) Minor Programmes</b> A student may use up to <b>16 MCs to satisfy their UEM</b> (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>.</p>		
	<p><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 fulfil UEM requirements. Refer to the advisory via <a href="http://www.ceb.nus.edu.sg/students/third_year.html">http://www.ceb.nus.edu.sg/students/third_year.html</a>.</p>		
	<p><b>(vi) University Scholars Programme (USP)</b> For more info, please 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>.</p>		
	<p><b>(vii) NUS Overseas Colleges (NOC)</b> For more info, please refer to <a href="http://www.overseas.nus.edu.sg/noc/">http://www.overseas.nus.edu.sg/noc/</a>.</p>		
	<p><b>(viii) EG1109 Statics &amp; Mechanics of Materials (4 MCs) &amp; MLE1101 Introductory Materials Science &amp; Engineering (4 MCs)</b> will count as UEM for those common engineering students (of AY2014 intake) who are <u>streamed to CEG2 in AY2015</u>.</p>		
3.	<p><b>Programme Requirements</b></p> <p><b>CEG Core Modules</b> CG1001 Introduction to Computer Engineering (2 MCs) CG1108 Electrical Engineering (4 MCs) CG2023 Signals &amp; 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 &amp; 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 &amp; Statistics (4 MCs) <a href="#">EG3601 Industrial Attachment Prog or CP3880 Adv Tech Attachment Prog</a> (12 MCs)</p> <p><b>CEG Projects</b> CG3002 Embedded Systems Design Project (6 MCs) EE3031 Innovation &amp; Enterprise I (4 MCs) CG4001 B.Eng. Dissertation (12 MCs)</p> <p><b>CEG Technical Electives</b> Minimum of <b>3</b> Technical Electives (<b>at least 12 MCs in total</b>) as follows: Depth (D) requirements - at least <b>2 technical depth electives</b> from any concentration Note: <b>All 3 technical electives must add up to 12 MCs. If not, student has to take more technical electives to make up to 12 MCs.</b></p>	124	
	<p style="text-align: center;"><b>Have I fulfilled all requirements to graduate?</b></p>	160 (min)	

**Other information:****1. Mapping of EG1108 (3 MCs) to CG1108 (4 MCs)**

This is applicable to common engineering students (of AY2014 intake) who are streamed to CEG in Year 2 (i.e. sem 1, AY15/16) 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.)

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

**3. S/U Option (AY2014 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	B9	GEM B: HUMANITIES AND SOCIAL SCIENCES
12	TECHNICAL ELECTIVE	C9	GEM A or/& GEM B
17	MINOR MODULE	S9	SINGAPORE STUDIES MODULE
27	UEM (UNRESTRICTED ELECTIVE OUTSIDE MAJOR)	MB	DOUBLE COUNT (MINOR & ULR BREADTH)
U9	ULR BREADTH (OUTSIDE STUDENT'S HOME FACULTY)	ME	DOUBLE COUNT (MINOR & TECHNICAL ELECTIVE)
A9	GEM A: SCIENCE AND TECHNOLOGY	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).