

Name: _____

Date: _____

Contact No: _____

Matric Number: _____

FFG Checklist for CEG students (direct entry to CEG1/streamed to CEG in Year2) of AY2012 intake:
& ~~Direct Entry Poly students of AY2013 intake~~

	HAVE I FULFILED THE FOLLOWING REQUIREMENTS?	No. of MCs	Tick if fulfilled
1.	<p>University Level Requirements (ULR):</p> <p>(i) GEM/SS/ULR Breadth: Students are required to read 20 MCs of the ULR consisting of: <ul style="list-style-type: none"> ▪ 2 *GEM modules (8 MCs) ▪ 1 SS (4 MCs) ▪ 2 **ULR Breadth outside student's Faculties i.e. FoE and SoC (8 MCs) Note 1: * <u>At least 1 GEM module must be from Subject Group B: Humanities and Social Science.</u> 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 UEM requirements. See section 2(iii) below). Other modules offered as ULR Breadth (module type code U9) by other faculties (<u>excluding those offered by FoE and SoC</u>) can also be taken by students to fulfil their ULR Breadth requirements. Note 2: ** <i>CEG POLY DIRECT ENTRY students are required to take bridging module PC1222 Fundamentals of Physics II before taking PC1432.</i></p> <p>(ii) Business Requirements Students are <i>strongly encouraged</i> 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 ULR Breadth outside student's Faculties or UEM requirements (see section 2(iii) below).</p> <p>(iii) Minor Programmes A student may use up to 18 MCs to satisfy their UEM (see section 2(ii) below) and another 8 MCs for their ULR Breadth outside student's Faculties to fulfil the minor requirements. For more info, please refer to http://www.eng.nus.edu.sg/ugrad/SP_minors.html.</p> <p>(iv) University Scholars Programme (USP) For USP students, please refer to http://www.eng.nus.edu.sg/ugrad/SP_usp.html.</p>	20	
2.	<p>Unrestricted Elective Modules (UEM):</p> <p>To be acquired through:</p> <p>(i) Enhancement Programmes <ul style="list-style-type: none"> ▪ EG3601 Industrial Att Prog (IAP)/CP3880 Adv Tech Att Prog (ATAP) – 12 MCs ▪ EG3602 Vacation Internship Prog (VIP)/CP3200 Student Internship Prog (SIP) – 6 MCs ▪ EG1603, EG2603A 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 only once. For IAP/ATAP and/or VIP/SIP, up to 12 MCs may be approved. For more info, please refer to http://www.eng.nus.edu.sg/undergrad/ep/ep-menu.html.</p> <p>(ii) Business Requirements Students are <i>strongly encouraged</i> 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 UEM requirements or ULR Breadth outside student's Faculties (see section 1(ii) above).</p> <p>(iii) Recommended Modules Recommended UEMs: ACC1002X / BSP1004X / BSP1005 / DSC2006 / EC1301 / MKT1003X / MNO1001X / SC1101E. (These recommended UEMs can also be used to meet ULR Breadth - see</p>	1816	

	<p>section 1(i) above). Other modules offered as UEM (module type code 27) by other faculties can also be taken by students to fulfil their UEM requirements.</p> <p><i>CEG POLY DIRECT ENTRY students are required to take MA1301 Introductory Mathematics if they do not have Diploma Plus Certificate.</i></p>		
	<p>(iv) Minor Programmes A student may use up to 18 MCs to satisfy their UEM and another 8 MCs for their ULR Breadth outside student's Faculties (see section 1(iii) above). S/U option is NOT allowed for these modules. For more info, please refer to http://www.eng.nus.edu.sg/ugrad/SP_minors.html.</p>		
	<p>(v) Other CEG Technical Electives For students who wish to achieve greater specialisation within Computer Engineering. CEG students could also take other relevant modules (not listed in the CEG Master-list of Technical Electives) to fulfil UEM requirements. Refer to the advisory via http://www.ceb.nus.edu.sg/students/third_year.html.</p>		
	<p>(vi) University Scholars Programme (USP) For more info, please refer to http://www.eng.nus.edu.sg/ugrad/SP_usp.html.</p>		
	<p>(vii) NUS Overseas Colleges (NOC) For more info, please refer to http://www.overseas.nus.edu.sg/noc/.</p>		
	<p>(viii) EG1109 Statics & Mechanics of Materials (4 MCs) & MLE1101 Introductory Materials Science & Engineering (4 MCs) will count as UEM for those common engineering students (of AY2012 intake) who are <u>streamed to CEG in Year 2</u>.</p>		
3.	Programme Requirements		125
3.1	Non-Technical Requirements: Sub-total – 10 MCs		
	CG1413 Effective Team Communication (4 MCs)		
	HR2002 Human Capital in Organisations (3 MCs)		
	EG2401 Engineering Professionalism (3 MCs)		
3.2	Major Requirements: Sub-total – 115 MCs		
	CG1101 Programming Methodology (4 MCs)		
	CG1103 / CS1020 Data Structures and Algorithms I (4 MCs)		
	CG1108 Electrical Engineering (4 MCs)		
	CG2007 Microp Systems (4 MCs) / EE2024 Progg for Computer Interfaces (5 MCs)		
	CG2271 Real-Time Operating Systems (4 MCs)		
	CG3207 Computer Architecture (4 MCs)		
	CS1231 Discrete Structures (4 MCs)		
	CS2103 Software Engineering (4 MCs)		
	EE2020 Digital Fundamentals (5 MCs)		
	EE2021 Devices & Circuits (4 MCs)		
	EE2023 Signals & Systems (4 MCs)		
	EE2031 Circuit and Systems Design Lab (3 MCs)		
	EE3204 Computer Communication Networks I (4 MCs)		
	MA1505 Mathematics I (4 MCs)		
	MA1506 Mathematics II (4 MCs)		
	PC1432 Physics IIE (4 MCs)		
	ST2334 Probability & Statistics (4 MCs)		
	CEG CORE – PROJECTS:		
	CG3002 Embedded Systems Design Project (6 MCs)		
	EE3001 Project / EE3031 Innovation & Enterprise I (4 MCs)		
	CG4001 B.Eng. Dissertation (12 MCs)		
	CEG TECHNICAL ELECTIVES:		

Minimum total of 6 Technical electives (at least 24 MCs in total) as follows: Depth (D) requirements - at least 3 technical depth electives from any concentration Note: All 6 technical electives must add up to 24 MCs. If not, student has to take more technical electives to make up 24 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 AY2012 intake) who are streamed to CEG in Year 2 and have read EG1108. **The 1-MC shortage (due to mapping EG1108 to CG1108) is cancelled out by 1-MC increase for EE2031.**

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

3. S/U Option (AY2012 intake):

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

<http://www.nus.edu.sg/registrar/edu/UG/graduation.html#SU>

http://www.eng.nus.edu.sg/ugrad/SI_su_policies.html and

http://www.nus.edu.sg/registrar/faqs/su_faq3.html

4. Exemptions for Poly graduates of AY2013/14 intake admitted into CEG:

Poly graduates admitted into the CEG in AY2013/14 will follow AY2012/13 CEG curriculum and may be eligible for the following exemptions (up to 35 MCs), depending on the Diploma from the polytechnics.

- **University Level Requirements (up to 8 MCs)**
 - 1 GEM (Module code GXX1999 under Subject Group B: Humanities and Social Science) 4 MCs
 - 1 Breadth (ULR) module 4 MCs
- **Unrestricted Elective Modules (UEMs up to 12 MCs)**
- **Faculty/Programme Requirements (up to 15 MCs)**
 - CG1413 Effective Team Communication 4 MCs
 - HR2002 Human Capital in Organisations 3 MCs
 - EE3001 Project 4 MCs
 - CG1108 Electrical Engineering OR CG1101 Programming Methodology 4 MCs

For details on the poly exemptions, please refer to <http://www.ceb.nus.edu.sg/admissions/>. Note that the 12 MCs (UEMs) granted to diploma holders will not count against the limit on level 1000 modules.

5. Module Type Code:

11	TECHNICAL ESSENTIAL	B9	GEM B: HUMANITIES AND SOCIAL SCIENCES MODULE
12	TECHNICAL ELECTIVE	C9	GEM A (SCI. & TECH.) & GEM B (HUMANITIES & SOC SCI.)
17	MINOR MODULE	S9	SINGAPORE STUDIES MODULE
27	UEM (UNRESTRICTED ELECTIVE OUTSIDE MAJOR)	MB	DOUBLE COUNT (MINOR & ULR BREADTH/CFM)
U9	ULR BREADTH (ELECTIVES OUTSIDE STUDENT'S FACULTY)	ME	DOUBLE COUNT (MINOR & TECHNICAL ELECTIVE)
A9	GEM A: SCIENCE AND TECHNOLOGY MODULE	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.