Name: _____   Student ID: _____

AFG checklist for CEG students from AY22/23, AY23/24 and AY24/25 intakes

	Have I fulfilled the following requirements?	Units	Tick if fulfilled
1.	**Common Curriculum Requirements**	**60**	
	Communities and Engagement - more details on C&E pillar here	4	
	Cultures and Connections - GEC	4	
	Critique and Expression - ES2631 Critique and Communication of Thinking and Design	4	
	Digital Literacy - CS1010 Programming Methodology	4	
	Data Literacy - GEA1000 Quantitative Reasoning with Data OR equivalent	4	
	Singapore Studies - GESS OR CDE2501 Liveable Cities*	4	
	Artificial Intelligence - EE2211 Introduction to Machine Learning OR EE2213 Intro to AI	4	
	Creating Narratives - CDE2000 Creating Narratives*	4	
	Design Thinking - DTK1234 Design Thinking	4	
	Integrated Project - CG4002 Computer Engineering Capstone Project OR FYP over two semesters via CG4001 / CP4106 / EE4002D / EE4002R	8	
	Maker Space - EG1311 Design and Make OR EG1311BE Design and Make	4	
	Project Management - PF1101 Fundamentals of Project Management OR PF1101A	4	
	Sustainable Futures – EG/CDE2501 Liveable Cities	4	
	Systems Thinking - IE2141 Systems Thinking and Dynamics*	4	
2.	**Programme Requirements:**	**60**	
	Engineering Core		
	MA1511 Engineering Calculus	2	
	MA1512 Differential Equations for Engineering	2	
	MA1508E Linear Algebra for Engineering	4	
	EG2401A Engineering Professionalism	2	
	CP3880 Advanced Technology Attachment Programme (12 units) OR EG3611A Industrial Attachment (10 units)	10	
	CEG Major		
	CG1111A Engineering Principles and Practice I	4	
	CG2111A Engineering Principles and Practice II	4	
	CS1231 Discrete Structures	4	
	CG2023 Signals & Systems	4	
	CG2027 Transistor-level Digital Circuits	2	
	CG2028 Computer Organization	2	
	CG2271 Real-Time Operating Systems	4	
	CS2040C Data Structures and Algorithms	4	
	CS2113 Software Engineering & Object-Oriented Programming	4	
	EE2026 Digital Design	4	
	EE4204 Computer Networks	4	
3.	**Unrestricted Electives (UE):**	**40**	
	which may be acquired through: - Bridging courses e.g. MA1301 and PC1201 - CEG Technical Electives - CEG Specialisation(s) - ES1103 English for Academic Purposes (if not exempted) - Innovation and Design Programme (iDP) and/or NUS Overseas Colleges (NOC)		

- Enhancement programmes e.g. UROP via CDE or SoC - Minor programmes - Double/Second Major [Almost all/any courses offered within NUS, can count as/be used to fulfil UE, so choose wisely!]			
The list of CEG's technical courses consists of: CS2107 Introduction to Information Security CG3207 Computer Architecture (Only offered in Sem 1) CG3201 Machine Learning and Deep Learning (to be first offered in Sem 2, AY25/26) Students from AY22 direct OR AY23 Poly intake are required to complete 4 additional units of technical course. Students from AY23 direct OR AY24 Poly intake are required to complete 8 additional units of technical courses. Students from AY24 direct intake are required to complete 12 additional units of technical courses. *Where applicable, the additional graduation requirements may be read in lieu of Creating Narratives and Systems Thinking. Only affected students (who have not fulfilled SS) can use CDE2501 to satisfy Singapore Studies and read an additional technical course to satisfy Sustainable Futures. If you do not have sufficient space in these three pillars, you will need to use your Unrestricted Electives (UE) to read the additional technical course(s).			
Have I fulfilled all requirements to graduate?		**160 (min)**	

Other information/checks:

1. **Limit on Level 1000 courses**
   Students should not read more than 60 units of level 1000 courses towards degree requirements.
   E.g. If you passed 64 units of level 1000 courses, your total units should sum to (at least) 164.

2. **Satisfactory / Unsatisfactory (S/U) option**
   Refer to S/U homepage within student portal for more information.

3. **Advanced Placement Credits (APCs) for Poly graduates admitted to CEG**
   Refer to https://ceg.nus.edu.sg/students/second_year/ -> Exemptions for Poly intake

4. **Residency Requirements** – minimum 80 units of NUS graded courses

5. **Minimum 60% of NUS-graded credits in Major**