Name: _____          Student ID: _____

Contact Number: _____

**AFG Checklist for CEG students from AY2021/2022 intake**

| | Have I fulfilled the following requirements? | MCs | Tick if fulfilled |
|---|---|---|---|
| 1. | **Common Curriculum Requirements** | **60** | |
| | Communities and Engagement - GEN | 4 | |
| | Cultures and Connections - GEC | 4 | |
| | Critique and Expression - ES2531 Critical Thinking and Writing | 4 | |
| | Digital Literacy - CS1010 Programming Methodology | 4 | |
| | Data Literacy - GEA1000 Quantitative Reasoning with Data | 4 | |
| | Singapore Studies - GESS | 4 | |
| | | | |
| | Artificial Intelligence - EE2211 Introduction to Machine Learning | 4 | |
| | Creating Narratives | 4 | |
| | Design Thinking - DTK1234 Design Thinking | 4 | |
| | Integrated Project - CG4002 Computer Engineering Capstone Project | 8 | |
| | Maker Space - EG1311 Design and Make | 4 | |
| | Project Management - PF1101 Fundamentals of Project Management | 4 | |
| | Sustainable Futures - EG2501 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 MCs) OR EG3611A Industrial Attachment (10 MCs) | 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 Elective Module (UEM):** | **40** | |
| | which may be acquired through:<br><br>- Bridging modules e.g. MA1301 and PC1201<br><br>- CEG Technical Electives<br><br>- CEG Specialisation e.g. IoT and Robotics<br><br>- ES1103 English for Academic Purposes (if not exempted) | | |

| | | |
|---|---|---|
| - Innovation and Design Programme (iDP) and/or NUS Overseas Colleges (NOC)<br><br>- Enhancement programmes e.g. UROP via FoE or SoC<br><br>- Minor programmes<br><br>- Double/Second Major<br><br>- University Scholars Programme (USP) or New College<br><br>[Almost all/any modules offered within NUS, can count as/be used to fulfil UEM, so choose wisely!] | | |
| **Have I fulfilled all requirements to graduate?** | **160 (min)** | |

**Other information:**

1. **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).

2. **Satisfactory / Unsatisfactory (S/U) option (AY2021 intake):** Refer to S/U homepage within student portal for more information.

3. **Advanced Placement Credits (APCs) for Poly graduates admitted to CEG in AY2021/22**
   DTK1234 Design Thinking 4 MCs
   EG1311 Design and Make 4 MCs
   EG3611P Industrial Attachment 10 MCs
   Unrestricted Elective Modules: 20 MCs