

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

Student ID: \_\_\_\_\_

**AFG checklist for CEG students from AY2026/2027 intake**

|           | <b>Have I fulfilled the following requirements?</b>                                                                                            | <b>Units</b> | <b>Tick if fulfilled</b> |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------|
| <b>1.</b> | <b>Common Curriculum Requirements</b>                                                                                                          | <b>40</b>    |                          |
|           | Communities and Engagement - <a href="#">more details on C&amp;E pillar here</a>                                                               | 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 - CDE2501 Sustainable Systems for Liveable Cities                                                                            | 4            |                          |
|           |                                                                                                                                                |              |                          |
|           | Artificial Intelligence - EE2211 Intro to ML OR EE2213 Intro to AI                                                                             | 4            |                          |
|           | Design Thinking - DTK1234 Design Thinking                                                                                                      | 4            |                          |
|           | Maker Space - EG1311/BE Design and Make                                                                                                        | 4            |                          |
|           | Project Management - PF1101A Project Management and Finance                                                                                    | 4            |                          |
| <b>2.</b> | <b>Programme Requirements:</b>                                                                                                                 | <b>80</b>    |                          |
|           | <b>Engineering Core</b>                                                                                                                        |              |                          |
|           | MA1511 Engineering Calculus                                                                                                                    | 2            |                          |
|           | MA1512 Differential Equations for Engineering                                                                                                  | 2            |                          |
|           | MA1508E Linear Algebra for Engineering                                                                                                         | 4            |                          |
|           | EG2401A Engineering Professionalism                                                                                                            | 2            |                          |
|           | <a href="#">CP3880 Advanced Technology Attachment Programme (12 units)</a> OR <a href="#">EG3611A Industrial Attachment (10 units)</a>         | 10           |                          |
|           | <b>CEG Major</b>                                                                                                                               |              |                          |
|           | 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            |                          |
|           | CS2107 Introduction to Information Security                                                                                                    | 4            |                          |
|           | CS2113 Software Engineering & Object-Oriented Programming                                                                                      | 4            |                          |
|           | EE2026 Digital Design                                                                                                                          | 4            |                          |
|           | CG3201 Machine Learning and Deep Learning                                                                                                      | 4            |                          |
|           | CG3207 Computer Architecture                                                                                                                   | 4            |                          |
|           | EE4204 Computer Networks                                                                                                                       | 4            |                          |
|           | Integrated Project: CG4002 Computer Engineering Capstone Project OR FYP over two semesters via CG4001 / CP4106 / EE4002D / EE4002R / CDE4301/A | 8            |                          |
| <b>3.</b> | <b>Unrestricted Electives (UE):</b>                                                                                                            | <b>40</b>    |                          |
|           | May be acquired through:                                                                                                                       |              |                          |
|           | - Bridging courses e.g. MA1301 and PC1201                                                                                                      |              |                          |
|           | - <a href="#">CEG Technical Electives</a>                                                                                                      |              |                          |
|           | - <a href="#">CEG Specialisation(s)</a>                                                                                                        |              |                          |
|           | - <a href="#">ES1103 English for Academic Purposes</a> (if not exempted)                                                                       |              |                          |
|           | - <a href="#">Innovation and Design Programme</a> (iDP) and/or <a href="#">NUS Overseas Colleges</a> (NOC)                                     |              |                          |

|  |                                                                                                                                                                                                                                                         |                      |  |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|
|  | - Enhancement programmes e.g. UROP via <a href="#">CDE</a> or <a href="#">SoC</a><br>- <a href="#">Minor programmes</a><br>- <a href="#">Double/Second Major</a><br>[Almost all courses offered within NUS can be used to fulfil UE, so choose wisely!] |                      |  |
|  | <b>Have I fulfilled all requirements to graduate?</b>                                                                                                                                                                                                   | <b>160<br/>(min)</b> |  |

**Other information/checks:**

1. **Limit on Level 1000 courses**  
Students should [not read more than 60 units of level 1000 courses](#) towards degree requirements
2. **Satisfactory / Unsatisfactory (S/U) option (AY2026 intake)**  
Refer to [S/U homepage within student portal](#) for more information.
3. **Advanced Placement Credits (APCs) for Poly graduates admitted to CEG in AY2026/27**  
Refer to [https://ceg.nus.edu.sg/students/second\\_year/](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](#)