Computer Engineering

AY2022 cohort

Accurate as of June 2022

E-Scholars 3-years schedule (CEG)			
Semester 0 (APT)			
EG1311 Design and Make			4
MA1505 Mathematics I (4 MC. It is mapped to MA1511 which is 2 MC + 2 MC UEM)			4
MA2001 Linear Algebra I (maps to MA1508E)			4
CS1010 Programming Methodology			4
Sub-total			16
Semester 1		**Semester 2**	
CS1231 Discrete Structures	4	GEA1000 Quantitative Reasoning with Data	4
MA1512 Differential Equations for Engineering	2	DTK1234 Design Thinking	4
CG1111A Engineering Principles and Practice I	4	CG2111A Engineering Principles and Practice II	4
PF1101 Fundamentals of Project Management	4	EE2026 Digital Design	4
UE	4	CS2040C Data Structures & Algorithms	4
UE	4	CG2023 Signals & Systems	4
UTCP #1	4	UTCP #2	4
Sub-total	26	**Sub-total**	28
Semester 3		**Semester 4**	
[CG2027 Transistor-level Digital Circuits + CG2028 Computer Organization]	4	NUS Overseas College (NOC) experience (20 MC)*	20
CS2113 Software Engineering & Object-Oriented Programming	4		
CG2271 Real-time Operating Systems	4		
EE4204 Computer Networks	4		
EE2211 Introduction to Machine Learning	4		
UE (or IE2141 if not staying at RC4)	4		
UTCP #3	4		
Sub-total	28	**Sub-total**	20
Semester 5		**Semester 6**	
UTCP #4	4	CG4002 CEG Capstone Project	8
UE	4	CDE2000 Creating Narratives	4
UE	4	EG2501 Liveable Cities	4
UE	4	UE	4
UE	4	EG2101 Pathways to engineering Leadership	2
Sub-total	20	**Sub-total**	22
		Grand total	160

Notes:

1. If APT modules are not cleared, those modules must be cleared during the normal semesters
2. Important rules for NOC:
- You MUST be on campus the semester BEFORE going to NOC.
- You MUST have cleared at least 70 MC before applying to NOC
3. *If not embarking on NOC, alternate module combinations to fulfil Industrial Attachment requirement (10MCs) include:
  a) EG3611A Industrial Attachment (10 MCs)
  b) EG3612 Vacation Industrial Attachment (6MCs) + EG2605 Undergraduate Research Opportunity (4MCs)
  c) EG3612 Vacation Industrial Attachment (6MCs) + CFG2101 NUS Vacation Internship Programme (4MCs)
    Note that option (a) can be done in any regular semester as long as you are at seniority 3.
    Note that UROP (EG2605) may be taken in any regular semester or special term as long as you are at seniority 2.
4. If you wish to read Common Curriculum modules before your recommended semester, please submit an appeal or select the modules from Round 2.
  - Modules that may be selected from Round 2: PF1101, ES2631 (if not doing UTCP)
  - Modules that require appeal: DTK1234, GEA1000, EG1311, EG2501, CDE2000, EE2211, IE2141 (if not staying in RC4)