

Computer Engineering

AY2021 cohort

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	PF1101 Fundamentals of Project Management	4
UE	4	CG2111A Engineering Principles and Practice II	4
UE	4	EE2026 Digital Design	4
UTCP #1	4	UTCP #2	4
Sub-total	22	Sub-total	24
Semester 3	Semester 4		
[CG2027 Transistor-level Digital Circuits + CG2028 Computer Organization]	4	xxxx Creating Narratives	4
CS2040C Data Structures & Algorithms	4	EG2501 Liveable Cities	4
EG2101 Pathways to engineering Leadership	2	EE2211 Introduction to Machine Learning	4
UE	4	CG2271 Real-time Operating Systems	4
UE	4	CS2113 Software Engineering & Object-Oriented Programming	4
UE (or IE2141 if not staying at RC4)	4	CG2023 Signals & Systems	4
UTCP #3	4	UTCP #4	4
Sub-total	26	Sub-total	28
Semester 5	Semester 6		
Three options: 1. NOC experience (20 MC) mappable to EG3611A (10 MC) + 10 MCs UEM 2. EG3611A (10 MCs) + EG3611B (2 MCs) + 8 MCs UEM 3. CP3880 ATAP (12 MCs) + 8 MCs UEM Note that option 2 can be done in other semesters as well	20	EE4204 Computer Networks	4
		CG4002 CEG Capstone Project	8
		UE	4
		UE	4
		UE	4
Sub-total	20	Sub-total	24
			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