Electrical Engineering

AY2021 cohort

E-Scholars 3-years schedule (EE)			
Semester 0 (APT)			
EG1311 Design and Make			4
MA1505 Mathematics I (4 MC but it is mapped to MA1511 which is 2 MC)			4
MA2001 Linear Algebra I (maps to MA1508E)			4
CS1010E Programming Methodology			4
Sub-total			16
Semester 1		**Semester 2**	
UE	4	GEA1000 Quantitative Reasoning	4
MA1512 Differential Equations for Engineering	2	DTK1234 Design Thinking	4
EE1111A Electrical Engineering Principles & Practice I	4	EE2211 Introduction to Machine Learning	4
UE	4	PF1101 Fundamentals of Project Management	4
UTCP #1	4	EE2111A Electrical Engineering Principles & Practice II	4
UE (or IE2141 if not staying at RC4)	4	EE2023 Signals & Systems	4
		UTCP #2	4
Sub-total	22	**Sub-total**	28
Semester 3		**Semester 4**	
PC2020 Electromagnetics for Electrical Engineers	4	Three options:	20
EE2026 Digital Design OR EE2028 Microcontroller Programming and Interfacing	4	1. NOC experience (20 MC)	
EE2027 Electronics Circuits	4	mappable to EG3611A (10 MC) + 10 MCs UE	
UTCP #3	4	2. EG3611A (10 MCs) + EG3611B (2 MCs) + 8 MCs UE	
EE2012 Analytical Methods in ECE	4	3. EG3612 (Vacation Industrial Attachment) + EG2605 (Undergraduate Research Opportunity, UROP) + 10 MC UE	
EE2022 Electrical Energy Systems	4		
EG2101 Pathways to engineering Leadership	2	Note that option 2 can be done in Semester 3 as well	
		Note that, for option 3, UROP can be done in Semester 3 as well.	
Sub-total	26	**Sub-total**	20
Semester 5		**Semester 6**	
EE4002D Design Capstone *or* EE4002R Research Capstone	4	EE4002D Design Capstone *or* EE4002R Research Capstone	4
Technical Elective	4	Technical Elective	4
UTCP #4	4	Xxxx Creating Narratives	4
UE	4	EG2501 Liveable Cities	4
UE	4	UE	4
UE	4	UE	4
Sub-total	24	**Sub-total**	24
		Grand total	160

Notes:

1. If APT modules are not cleared, those modules must be cleared during the normal semesters

2. Improtant 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