Envrionmental Engineering

AY2021 cohort

E-Scholars 3-years schedule (ENV)				
Semester 0 (APT)				
EG1311 Design and Make				4
MA1505 Mathematics I (4 MC but it is mapped to MA1511 which is 2 MC)				4
CS1010E Programming Methodology				4
Sub-total				12
Semester 1		**Semester 2**		
GER1000 Quantitative Reasoning	4	MA1512 Differential Equations for Engineering		2
DTK1234 Design Thinking	4	ESE2102 Principles & Practice in Environmental Monitoring		4
MA1513 Linear Algebra with Differential Equations	2	ESE3101 Resource Management and Circular Economy		4
ESE2101 Environmental Engineering Principles & Practices	4	ESE3301 Microbiology in Natural and Built Environment		4
PF1101 Fundamentals of Project Management	4	EG2101 Pathways to engineering Leadership		2
CE2407A Engineering Uncertainty Analysis	2	UTCP #2		4
UTCP #1	4	UE (or IE2141 if not staying at RC4)		4
		UE		4
Sub-total	24	**Sub-total**		28
Semester 3		**Semester 4**		
EG2501 Liveable Cities	4	Three options: 1. NOC experience (20 MC) mappable to EG3611A (10 MC) + 10 MCs UE 2. EG3611A (10 MCs) + EG3611B (2 MCs) + 8 MCs UE 3. EG3612 (Vacation Industrial Attachment) + EG2605 (Undergraduate Research Opportunity, UROP) + 10 MC UE 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.		20
ESE2001 Environmental Challenges in the Anthropocene	4			
ESE3201 Air Quality in Changing Environment	4			
ESE3401 Sustainable Urban Water Technology	4			
ESE2000 Chemistry for An Environmentally Sustainable Future	4			
EE2211 Introduction to Machine Learning	4			
UTCP #3	4			
Sub-total	28	**Sub-total**		20
Semester 5		**Semester 6**		
ESE4502R B. Eng. Dissertation OR ESE4501 Design Project	4	ESE4502R B. Eng. Dissertation OR ESE4501 Design Project		4
Technical Elective	4	Technical Elective		4
UTCP #4	4	UE		4
Xxxx Creating Narratives	4	UE		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