Biomedical Engineering

AY2021 cohort

E-Scholars 3-years schedule (BME)			
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**	
GEA1000 Quantitative Reasoning	4	BN2102 Bioengineering Data Analysis	4
DTK1234 Design Thinking	4	BN2204 Fundamentals of Biomechanics	4
MA1513 Linear Algebra with Differential Equations	2	UTCP #2	4
BN1111 Engineering Principles and Practice I	4	UE	4
PF1101 Fundamentals of Project Management	4	CE2407B Introduction to Numerical Methods for Engineers	2
CE2407A Engineering Uncertainty Analysis	2	BN2111 Engineering Principles and Practice II	4
UTCP #1	4	EG2101 Pathways to engineering Leadership	2
		UE (or IE2141 if not staying at RC4)	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
BN2201 Quantitative Physiology for Bioengineers	4		
BN2301 Biochemistry and Biomaterials for Bioengineers	4		
BN2403 Fundamentals of Biosignals and Bioinstrumentation	4		
UTCP #3	4		
EE2211 Introduction to Machine Learning	4		
BN3101A Biomedical Engineering Design	4		
Sub-total	28	**Sub-total**	20
Semester 5		**Semester 6**	
BN4101 B.Eng Dissertation	4	BN4101 B.Eng Dissertation	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