

Chemical Engineering

AY2021 cohort

E-Scholars 3-years schedule (CHEM)			
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	CN2103 Mass & Energy Balance	4
DTK1234 Design Thinking	4	CN2104 Chemical Engineering Thermodynamics	4
MA1513 Linear Algebra with Differential Equations	2	UTCP #2	4
CN1101A Chemical Engineering Principles and Practice I	4	UE	4
PF1101 Fundamentals of Project Management	4	MA1512 Differential Equations for Engineering	2
CE2407A Engineering Uncertainty Analysis	2	CN2102 Chemical 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
UTCP #3	4		
CN2105 Reaction Engineering	4		
UTCP #4	4		
EE2211 Introduction to Machine Learning	4		
UE	4		
UE	4		
Sub-total	28	Sub-total	20
Semester 5	Semester 6		
CN4119 Final Year Design Project OR CN4118 B.Eng. Dissertation	4	CN4119 Final Year Design Project OR CN4118 B.Eng. Dissertation	4
CN4101 Process Control and Safety	4	CN4102 Chemical Engineering Lab	4
CN2106 Fluid Mechanics & Heat Transfer	4	UE	4
Xxxx Creating Narratives	4	UE	4
CN3104 Computer-Aided Chemical Process Simulation	4	UE	4
CN3103 Mass Transfer and Separation Processes	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. 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