

Chemical Engineering

AY2022 cohort

Accurate as of June 2022

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	CN2102 Chemical Engineering Principles and Practice II	4
CN1101A Chemical Engineering Principles and Practice I	4	MA1512 Differential Equations for Engineering	2
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	
CN2105 Reaction Engineering	4	NUS Overseas College (NOC) experience (20 MC)*	20
CN2106 Fluid Mechanics & Heat Transfer	4		
EE2211 Introduction to Machine Learning	4		
EG2501 Liveable Cities	4		
UTCP #3	4		
UTCP #4	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
CN3104 Computer-Aided Chemical Process Simulation	4	UE	4
CN3103 Mass Transfer and Separation Processes	4	UE	4
UE	4	UE	4
CDE2000 Creating Narratives	4	UE	4
Sub-total	24	Sub-total	24
			Grand total
			160

Notes:

- If APT modules are not cleared, those modules must be cleared during the normal semesters
- 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
- *If not embarking on NOC, alternate module combinations to fulfil Industrial Attachment requirement (10MCs) include:
 - EG3611A Industrial Attachment (10 MCs)
 - EG3612 Vacation Industrial Attachment (6MCs) + EG2605 Undergraduate Research Opportunity (4MCs)
 - EG3612 Vacation Industrial Attachment (6MCs) + CFG2101 NUS Vacation Internship Programme (4MCs)

Note that option (a) can be done in any regular semester as long as you are at seniority 3.

Note that UROP (EG2605) may be taken in any regular semester or special term as long as you are at seniority 2.
- If you wish to read Common Curriculum modules before your recommended semester, please submit an appeal or select the mod
 - Modules that may be selected from Round 2: PF1101, ES2631 (if not doing UTCP)
 - Modules that require appeal: DTK1234, GEA1000, EG1311, EG2501, CDE2000, EE2211, IE2141 (if not staying in RC4)