

## Chemical Engineering

AY2024 cohort

Accurate as of May 2024

E-Scholars 3-years schedule (CHEM)			
Semester 0 (APT)			
EG1311 Design and Make			4
MA1505 Mathematics I (4 units. It is mapped to MA1511 which is 2 units, + 2 units to UE)			4
CS1010E Programming Methodology			4
<b>Sub-total</b>			<b>12</b>
Semester 1		Semester 2	
GEA1000 Quantitative Reasoning	4	CN2104 Chemical Engineering Thermodynamics	4
DTK1234 Design Thinking	4	CN2102 Chemical Engineering Principles and Practice II	4
MA1513 Linear Algebra with Differential Equations	2	MA1512 Differential Equations for Engineering	2
CN1101A Chemical Engineering Principles and Practice I	4	PF1101 Fundamentals of Project Management	4
CN2103 Mass & Energy Balance	4	UTCP #2	4
CE2407A Engineering Uncertainty Analysis	2	UE (or IE2141 if not staying at RC4)	4
UTCP #1	4	UE	4
<b>Sub-total</b>	<b>24</b>	<b>Sub-total</b>	<b>26</b>
Semester 3		Semester 4	
CN2105 Reaction Engineering	4	NUS Overseas College (NOC) experience (20 units)*	20
CN2106 Fluid Mechanics & Heat Transfer	4		
CN3103 Mass Transfer and Separation Processes	4		
EE2211 Introduction to Machine Learning	4		
CDE2501 Liveable Cities	4		
UE	4		
UTCP #3	4		
<b>Sub-total</b>	<b>28</b>	<b>Sub-total</b>	<b>20</b>
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
UE	4	UE	4
CDE2000 Creating Narratives	4	UE	4
UTCP #4	4	UE	4
UE*	2		
<b>Sub-total</b>	<b>26</b>	<b>Sub-total</b>	<b>24</b>
			<b>Grand total</b>
			<b>160</b>

Notes:

1. If APT courses are not cleared, those courses 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 units before applying to NOC

3. \*If not embarking on NOC, alternate module combinations to fulfil Industrial Attachment requirement (10 units) include:

a) EG3611A Industrial Attachment (10 units)

b) EG3612 Vacation Industrial Attachment (6 units) + EG2605 Undergraduate Research Opportunity (4 units)

c) EG3612 Vacation Industrial Attachment (6 units) + CFG2101 NUS Vacation Internship Programme (4 units) Note that EG3612 and EG3611A can be done as long as you have cleared 60 units.

d) EG2401A Engineering Professionalism (2 Units)

Note that UROP (EG2605) may be taken in any regular semester or special term as long as you are at seniority 2.

4. If you wish to read Common Curriculum courses before your department's recommended semester, please submit an appeal or select the co

- courses that may be selected from Round 2: PF1101, CDE2501, ES2631 (if not doing UTCP)

- courses that require appeal: EG2401A, DTK1234, GEA1000, EG1311, CDE2000, EE2211, IE2141 (if not staying in RC4) Please refer to the CDE common curriculum wiki for more info on common course pre-allocation and registration issues.

<https://wiki.nus.edu.sg/displav/eng/Pre-allocation+and+Registration+for+Common+Courses+in+CDE>