

Bachelor of Engineering (Chemical Engineering)
Recommended Semester Schedule for A-level Students (AY2025/2026 Intake)

Semester 1	Unit	Semester 2	Unit
CN1101A Chemical Engineering Principles and Practice I	4	CN2102 Chemical Engineering Principles and Practice II	4
CE2407A Engineering Uncertainty Analysis	2	CN2103 Mass & Energy Balances	4
DTK1234 Design Thinking	4	CS1010E Programming Methodology	4
GEA1000 Quantitative Reasoning with Data	4	EG1311 Design and Make	4
MA1513 Linear Algebra with Differential Equations	2	MA1511 Engineering Calculus	2
PF1101A Project Management and Finance	4	MA1512 Differential Equations for Engineering	2
Sub-total	20	Sub-total	20
Semester 3		Semester 4	
CN2104 Chemical Engineering Thermodynamics	4	CN2105 Reaction Engineering	4
CN2109 Fluid Mechanics	4	CN2110 Heat and Mass Transfer	4
CDE2501 Liveable Cities	4	CN2111 Fundamentals of Biomolecular Engineering	4
EE2211 Introduction to Machine Learning	4	ES2631 Critique and Communication of Thinking and Design	4
GE/UE	4	GE/UE	4
Sub-total	20	Sub-total	20
Semester 5[#]		Semester 6[#]	
CN3104 Computer-Aided Chemical Process Simulation	4	EG3611A Industrial Attachment	10
CN3105 Machine Learning in Chemical Engineering	4	GE/UE	4
CN3106 Separation Processes	4	GE/UE	4
EG2401A Engineering Professionalism	2		
GE/UE	4		
GE/UE	4		
Sub-total	22	Sub-total	18
Semester 7		Semester 8	
CN4119 Final Year Design Project (Part 1)	4	CN4119 Final Year Design Project (Part 2)	4
CN4101 Process Control and Safety	4	CN4102 Chemical Engineering Lab	4
GE/UE	4	GE/UE	4
GE/UE	4	GE/UE	4
GE/UE	4	GE/UE	4
Sub-total	20	Sub-total	20

[#]Courses scheduled in Semesters 5 and 6 can be swapped, thus students can also choose to go on IA in Semester 5.