

Programme Matrix for Students Intake of AY2025-2026 onwards

Programme Matrix	
Faculty	Engineering
Program	Chemical Engineering
Award	Bachelor of Engineering in Chemical Engineering
Credit Hour	133 Credit Hours
Academic Year	2025-2026

Level	Semester 1					Semester 2				
	Course Code	Course Name	Pre-requisite	Core/Elective	CHrs	Course Code	Course Name	Pre-requisite	Core/Elective	CHrs
1	CHEM1020	General Chemistry	None	Core	4	ELEC1100	Principles of Electrical Circuits	MATH1010	Core	4
	COMP1500	Introduction to Programming	IC3M2	Core	4	ENGG1010	Applied Mechanics	MATH1010	Core	4
	ENGG1013	Engineering Drawing and Computer Drafting	None	Core	2	ENGG1023	Engineering Materials	None	Core	4
	MATH1010	Calculus I	SET3	Core	4	MATH1200	Calculus II	MATH1010	Core	4
	UNIR1100	Communication Skills (1)	None	Core	3	UNIR1001	Oman and Islamic Culture	IC3M1A	Core	2
2	CHEM2000	Chemistry for Engineers	None	Core	4	CHEM2002	Process System Analysis	None	Core	4
	CHEM2001	Introduction of Chemical Engineering	None	Core	4	CHEM2004	Fundamental of Fluid Mechanics	None	Core	4
	ELEC2113	Instrumentation & Measurement	ELEC1100	Core	4	CHEM2056	Physical & Surface Chemistry	CHEM1020	Core	4
	MATH2200	Differential Equations and Statistics	MATH1200	Core	4	UNIR2001	Entrepreneurship	None	Core	2
	UNIR1002	Arabic Language Skills	SET 1A	Core	2	UNIR2100	Communication Skills (2)	UNIR1100	Core	3
3	CHEM3000	Heat Transfer	None	Core	4	CHEM3010	Process Modelling and Dynamics	None	Core	4

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	CHEM3008	Chemical Process Industries	None	Core	4	CHEM3012	Separation Processes (2)	None	Core	4
	CHEM3011	Separation Processes (I)	None	Core	4	CHEM3003	Process Engineering Thermodynamics	None	Core	4
	ENGG3700	Numerical Analysis and Optimization	MATH2200	Core	4	UNIR3100	Communication Skills (3)	UNIR2100	Core	3
4	CHEM4004	Process and Control System Design	CHEM3010	Core	4	CHEM4007B	Process Design Practice	None	Core	4
	CHEM4005	Reaction Engineering	CHEM3003	Core	4	CHEM4015	Waste Treatment Processes	None	Core	4
	CHEM4007A	Process Design Practice	None	Core	4	CHEM4020	Renewable & Sustainable Energy	None	Core	4
	ENGG4801A	Final Year Project (A)	75% of Level 3 courses	Core	4	ENGG4801B	Final Year Project (B)	ENGG4801A	Core	4