

B.Eng (Hons) in Chemical and Biomolecular Engineering with 2nd Major in Business (Mainstream)

with Professional Internship

AY2026 - 2027 Intake onwards (CBBM)

Programme	Year of Study	Number of Academic Unit (AU)						
		Major Requirement		Interdisciplinary Collaborative Core			Broadening and Deepening Electives (BDE)	Total
Chemical & Biomolecular Engineering with Second Major in Business	1	24		7		3	6	40
	2	28		7	3		6	44
	3	17			11		6	34
	4	8	6		2		12	28
	Total	77	6	14	16	3	30	146
78*								147*

Category			AU	Total AU
Interdisciplinary Collaborative Core (ICC)	Common Core (CC)			
	CC0001	Inquiry and Communication in the Interdisciplinary World	2	14
	CC0003	Ethics & Civics in a Multi-Cultural World	2	
	CC0006	Sustainability: Society, Economy & Environment	3	
	CC0007	Science & Technology for Humanity	3	
	CC0015	Health & Wellbeing	2	
	ML0004	Career Design & Workplace Readiness in a Dynamic World	2	
	Professional Series (PS)			
	CB0494	Introduction to Data Science and Artificial Intelligence	3	16
	HW0288	Engineering Communication	2	
	MLXXXX	Professional Preparation	1	
	CH3920	Professional Internship	10	
	Care, Service, Learn (CSL)			
		Service Learning	3	3
Major Requirement	CBE Core			
	EG1001	Engineers In Society	2	22
	MH1810	Math 1	3	
	PH1011*	Physics	3	
	CB1102	Introduction to Chemistry, Chemical Engineering and Biomedical Engineering	1	
	CB1103	Organic Chemistry For Engineers	3	
	CB1117	Engineering Mathematics	4	
	CB1131	Introduction to Biomolecular Engineering	3	

	CH1104	Materials & Energy Balance	3	
Major Requirement	CH1801	Chemical & Biomolecular Engineering Laboratory 1A	1	55
	CH1802	Chemical & Biomolecular Engineering Laboratory 2	1	
	CH2010	Engineering Statistics	3	
	CH2103	Fluid Systems	3	
	CH2107	Introduction to Computational Thinking	3	
	CH2108	Thermodynamics	3	
	CH2112	Chemical Reaction Engineering	3	
	CH2114	Heat & Mass Transfer in Chemical and Biological Systems	3	
	CH2123	Chemical Thermodynamics	3	
	CH2151	Unit Operations: Fluid-Solid Separation	3	
	CH2801	Chemical & Biomolecular Engineering Laboratory 2A	2	
	CH2802	Chemical & Biomolecular Engineering Laboratory 2B	2	
	CH3104	Biochemical Engineering	3	
	CH3109	Decision Tools for Business & Engineering	3	
	CH3111	Process Control and Dynamics	3	
	CH3121	Chemical, Biological & Plant Safety	2	
	CH3140	Unit Operations: Fluid-Fluid Separation	3	
	CH3802	Chemical & Biomolecular Engineering Laboratory 5	3	
	CH4801	Final Year Design Project	8	
	CBE Major Prescribed Electives (MPE)			6
2nd Major in Business (BDEs)	Foundation Business Courses			30
	AB1201	Financial Management	3	
	AB1301	Business Law	3	
	AB1501	Marketing	3	
	AB1601	Organisational Behaviour & Design	3	
	AD1102	Financial Accounting	3	
	BE1402	Business Operations & Process	3	
	Advanced Business Courses			
	AD2102	Management Accounting	3	
	BE2602	Management in Principles, Skills &	3	
	BF2219	Investments	3	
	BM2509	Consumer Insights	3	
Total				146

147*

**Students without 'A' Level/Senior High School Physics will take 'PH1012 Physics A' (4AU)*

with Professional Internship

**Students without 'A' Level/Senior High School Physics will take 'PH1012 Physics A' (4AU)*