

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

with Professional Internship

AY2026 - 2027 Intake onwards (CBET)

Programme	Year of Study	Number of Academic Units (AU)						
		Major Requirement		Interdisciplinary Collaborative Core			Broadening and Deepening Electives (BDE)	Total
		Core (C)	Major PE (MPE)	Common Core (CC)	Professional Series (PS)	Care, Serve, Learn (CSL)		
Chemical & Biomolecular Engineering with Second Major Entrepreneurship (CBET)	1	24		7		3	6	40
	2	28		7	3		6	44
	3	17			13 [5]			30 [5]
	4	8	6				13	27
	Total	77	6	14	16 [5]	3	25	141
		78*			142*			

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	
	CH3940 Overseas Entrepreneurship Programme (OEP) OR	10	
	CH3920 Professional Internship (PI)		
	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)			
2nd Major in Entrepreneurship (BDEs)	Compulsory Courses			25
	ET5001	Foundations of Innovation & Entrepreneurship	3	
	ET5003	Leading and Managing New Entreprises	3	
	ET5132	New Venture Financing	3	
	ET5135	Business Venture Implementation	3	
	Compulsory Experiential Programme			
	CH3940	Overseas Entrepreneurship Programme (OEP) OR	NA	
	CH3920	Professional Internship (PI)		
Elective Courses (at least 4 courses)		13		
Total			141	

142*

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

^Counted towards 2nd Major in Entrepreneurship requirement (total 10AU)

[] AU of courses that could be used to fulfil Core/MPE requirement and 2nd Major requirement concurrently

Year 1 Semester 1

Year 2 Semester 1Year 3 Semester 1Year 4 Semester 1

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Year 2 Semester 2

Year 3 Semester 2Year 4 Semester 2

Total (AU)

[^]Counted towards 2nd Major in Entrepreneurship requirement (total 5AU)