

BEng (Chemical and Biomolecular Engineering) and BSocSci (Economics)
(wef AY2025/2026 Intake)

List of Courses that Contributes to BEng (Chemical and Biomolecular Engineering)				AU Load	
Discipline Requirement	Core	EG1001	Engineers In Society	2	77/78*AU
		MH1810	Math 1	3	
		PH1011*	Physics	3	
		CB1102	Introduction to Chemical 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	
		CH1801	Chemical & Biomolecular Engineering Laboratory 1A	1	
		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 B	3	
		CH3802	Chemical & Biomolecular Engineering Laboratory 5	3	
		CH4801	Final Year Design Project	8	

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	BDE	HE1001	Microeconomics I	3	18 AU 15AU from compulsory Economics Core courses. Remaining 3AU from Year 3 and 4 Economics PE that yield the highest CGPA. + 5AU (PA only)
		HE1002	Macroeconomics I	3	
		HE2001	Microeconomics II	3	
		HE2002	Macroeconomics II	3	
		HE2003	Econometrics I	3	
		HEXXXX	Economics PE	3	
			BDE 1	2	2AU
Interdisciplinary Collaborative Core	Major PE	BGXXXX	BIE PE 1	3	6AU
		BGXXXX	BIE PE 2	3	
	Common Core	CC0001	Inquiry and Communication in an Interdisciplinary World	2	14 AU
		CC0003	Ethics & Civics in a Multi-Cultural World	2	
		CC0015	Health & Wellbeing	2	
		CC0006	Sustainability: Society, Economy & Environment	3	
		CC0007	Science & Technology for Humanity	3	
		ML0004	Career Design & Workplace Readiness in the V.U.C.A World	2	
	Professional Series	HW0288	Engineering Communication	2	16 AU or 11 AU (for PA only)
		CB0494	Introduction to Data Science and Artificial Intelligence	3	
		^BG3920/ BG3910	Professional Internship/ Professional Attachment	10/5	
		MLXXXX	Professional Preparation	1	
	Care, Serve, Learn (CSL)		Service Learning	3	
TOTAL					136/137* AU

*Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).