BEng (Bioengineering) and BSocSci (Economics) - AY2025-26 Intake onwards

List of Courses that Contributes to BEng (Bioengineering)					AU Load
Discipline Requirement	**Core**	EG1001	Engineers In Society	2	**78/79* 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	
		BG1141	Cellular & Molecular Biology for Bioengineers	3	
		BG1801	Bioengineering Lab 1A	1	
		BG1802	Bioengineering Lab 1B	1	
		CB2002	Introduction to Chemical and Biological Safety	1	
		BG2103	Signal Processing in Biosystems	3	
		BG2104	Electronics for Biomedical Engineering	3	
		BG2110	Bioelectricity	3	
		BG2119	Anatomy and Physiology	3	
		BG2131	Biomaterials	3	
		BG2142	Biological Thermodynamics	3	
		BG2209	Mechanics for Bioengineers	3	
		BG2211	Introduction to Computational Thinking	3	
		BG2801	Bioengineering Lab 2A	1	
		BG2802	Bioengineering Lab 2B	1	
		BG3102	Control in Biosystems	3	
		BG3104	Biomedical Imaging	3	
		BG3105	Biomedical Instrumentation	3	
		BG3112	Cardiovascular Engineering	3	
		BG3801	Bioengineering Lab 3	1	
		BG4104	Machine Learning and Optimization for Bioengineers	3	

List of Courses that Contributes to BEng (Bioengineering)				AU Load	
		BG4122	Medical Device Design	6	
		BG4801	Final Year Project	8	
	BDE	HE1001	Microeconomics I	3	**18 AU** 15AU from compulsory Economics Core courses. 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	1	**1 AU**
	Major PE	BGXXXX	BIE PE 1	3	**6AU**
		BGXXXX	BIE PE 2	3	
Interdisciplinary Collaborative Core	**Common Core**	CC0001	Inquiry and Communication in the 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).