

B.Eng (Hons) in Bioengineering with 2nd Major in Business (Mainstream)

with Professional Internship

AY2026 - 2027 Intake (BEBM)

Programme	Year of Study	Number of Academic Unit (AU)						Total
		Major Requirement		Interdisciplinary Collaborative Core			Broadening and Deepening Electives (BDE)	
Bioengineering with Second Major in Business	1	21		7		3	6	37
	2	27		7	3		6	43
	3	13			13		6	32
	4	11	12				12	35
	Total	72	12	14	16	3	30	147
73*								148*

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	16
	Professional Series (PS)		
	CB0494 Introduction to Data Science and Artificial Intelligence	3	
	HW0288 Engineering Communication	2	
Major Requirement	MLXXXX Professional Preparation	1	
	BG3920 Professional Internship	10	
	Care, Service, Learn (CSL)		
	Service Learning	3	3
	BIE Core		
	EG1001 Engineers In Society	2	20
	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	
	BG1141 Cellular & Molecular Biology for Bioengineers	3	
	BG1801 Bioengineering Lab 1A	1	

Major Requirement	BG1802 Bioengineering Lab 1B	1	52
	CB2002 Introduction to Chemical and Biological Safety	1	
	BG2103 Biosignal Processing	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	
	BG4801 Final Year Project OR BG4123 Capstone Project	8	
	BIE Major Prescribed Electives (MPE)		12
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 & Competencies	3	
	BF2219 Investments	3	
	BM2509 Consumer Insights	3	
Total			147

148*

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

Suggested Study Plan for A with Professional Internship

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

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