

BEng (BioEngineering) and BA (Economics) (Students admitted from AY2019/2020)

List of courses that contribute towards BA(Econs)				AU Load	
Discipline Requirement	Core	HE1001	Microeconomic Principles	3	33 AU
		HE1002	Macroeconomic Principles	3	
		HE1005	Intro to Probability & Statistical Inference	3	
		HE2001	Intermediate Microeconomics	3	
		HE2002	Intermediate Macroeconomics	3	
		HE2005	Principles of Econometrics	3	
		HE3021	Intermediate Econometrics	3	
		HE4010	Singapore Economy in a Globalized World	4	
		BG4801	Final Year Project	8	
	Major PE	HExxxx	Econs PE1	3	39 AU
		HExxxx	Econs PE2	3	
		HExxxx	Econs PE3	3	
		HExxxx	Econs PE4	3	
		HExxxx	Econs PE5	3	
		HExxxx	Econs PE6	3	
		HExxxx	Econs PE7	3	
		HExxxx	Econs PE8	3	
		HExxxx	Econs PE9	3	
		HExxxx	Econs PE10	4	
		HExxxx	Econs PE11	4	
		HExxxx	Econs PE12	4	
	UE	PH1011*	Physics	3	25 AUs
		BG1101	Introduction to Biomedical Engineering	2	
		MH1810	Mathematics 1	3	
		BG1103	Chemistry	3	
		BG1105	Materials Science	3	
		BG1117	Engineering Mathematics	4	
		BG1109	Anatomy & Physiology	3	
		BG1131	Molecular Cell Biology for Biomedical Engineers	4	
		BG2104	Electronics for Biomedical Engineering	3	14 AUs from 2 nd and 3 rd Year Engineering courses that yield the highest CGPA
		BG2109	Biomechanics	3	
		BG2110	Bioelectricity	3	
		BG2211	Introduction to Computational Thinking	3	
BG2112		Cardiovascular Engineering	4		
BG2131		Biomaterials	3		
BG2141		Mechanics of Materials	3		
BG2142		Biological Thermodynamics	3		
BG3102		Control in Biosystems	3		
BG3103		Signal Processing	3		
BG3104		Biomedical Imaging	3		
BG3105		Biomedical Instrumentation	3		
General Education Requirements (GER)		GER (Core)	EG0001	Engineers and Society	
	HW0188		Engineering Communication I	2	
	HW0288		Engineering Communication II	2	
	ML0003		Kickstart your Career Success	1	
	BG0494		Introduction to Data Science and Artificial Intelligence	3	
	GC0001		Introduction to Sustainability	1	
	HY0001		Ethics and Moral Reasoning	1	
	ET0001		Entrepreneurship and Innovation	1	
TOTAL				125 AU	

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

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BEng (Chemical and Biomolecular Engineering) and BA (Economics)*(wef AY2019/2020) – updated on 19 May 2020*

List of courses that contribute towards BA(Econs)				AU Load	
Discipline Requirement	Core	HE1001	Microeconomic Principles	3	33 AUs
		HE1002	Macroeconomic Principles	3	
		HE1005	Intro to Probability & Statistical Inference	3	
		HE2001	Intermediate Microeconomics	3	
		HE2002	Intermediate Macroeconomics	3	
		HE2005	Principles of Econometrics	3	
		HE3021	Intermediate Econometrics	3	
		HE4010	Singapore Economy in a Globalized World	4	
		CH4801	Final Year Project	8	
	Major PE	HExxxx	Econs PE1	3	39 AUs
		HExxxx	Econs PE2	3	
		HExxxx	Econs PE3	3	
		HExxxx	Econs PE4	3	
		HExxxx	Econs PE5	3	
		HExxxx	Econs PE6	3	
		HExxxx	Econs PE7	3	
		HExxxx	Econs PE8	3	
		HExxxx	Econs PE9	3	
		HExxxx	Econs PE10	4	
		HExxxx	Econs PE11	4	
		HExxxx	Econs PE12	4	
	UE	CH1102	Introduction to Chemical Engineering in New Era	1	26 AUs
		CH1104	Materials & energy balances	4	
		MH1810	Math 1	3	
		CH1117	Engineering Mathematics	4	
		CH1108	Thermodynamics	4	
		CH1131	Biomolecular engineering	4	
		CH2106	Introduction to Multidisciplinary Engineering	2	
		CH2102	Organic Chemistry and Spectrophotometry	4	
		CH2010	Engineering Statistics	3	13 AUs from 2nd and 3rd Year Engineering courses that yield the highest CGPA
		CH2103	Fluid systems	4	
		CH2104	Heat & mass transfer	4	
		CH2107	Introduction to Computational Thinking	3	
CH2109		Decision Tools for Business & Engineering	3		
CH2140		Unit Operation	4		
CH3104		Biochemical Engineering	3		
CH3101		Process Control and Dynamics	4		
CH3102		Chemical Reaction engineering	4		
CH3103		Chemical thermodynamics	3		
CH3141		Advanced Unit Operations	3		
CH4101		Chemical, Biological & Plant Safety	2		
General Education Requirements (GER)		GER (Core)	EG0001	Engineers and Society	
	HW0188		Engineering Communication I	2	
	HW0288		Engineering Communication II	2	
	ML0003		Kickstart your Career Success	1	
	CH0494		Introduction to Data Science and Artificial Intelligence	3	
	GC0001		Introduction to Sustainability	1	
	HY0001		Ethics and Moral Reasoning	1	
	ET0001		Entrepreneurship and Innovation	1	
	TOTAL				125 AUs