BEng (Materials Engineering) and BA (Economics) (wef AY2018)

List of courses that contribute towards BEng (Materials Engineering)				AU Lo	AU Load	
		PH1011/12	Physics**	3		
Discipline Requirement		MH1810	Mathematics I	3		
		MS1008	Introduction to Computational Thinking	3	85 AUs (PA Option) 90 AUs (PI Option)	
	Core	MS1012	Materials Physics	3		
		MS1013	Materials Chemistry I	3		
		MS1014	Materials Chemistry II	3		
		MS1015	Materials Science	3		
		MS1015	Thermodynamics of Materials	3		
		MH2811	Mathematics II	3		
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		MS2012	Introduction to Manufacturing	3		
		MS2013	Polymers and Composites	3		
		MS2014	Materials Structure and Defects	3		
		MS2015	Mechanical Behaviour of Materials	3		
		MS2016	Phase Transformation and Kinetics	3		
		MS2018	Electronic & Magnetic Properties of Materials	3		
		MS2081	Laboratory IIA	1		
		MS2082	Laboratory IIB	1		
		MS3011	Metallic & Ceramic Materials	3		
		MS3012	Micro/Nanoelectronic Materials Processing	3		
		MS3013	Environmental Effects on Materials	3		
		MS3014	Analysis of Materials	3		
		MS3015	Materials Aspect in Design	3		
		MS3081	Laboratory III	1		
		MS3096/	Professional Attachment / Professional			
		MS3099	Internship	5/10		
		MS4012	Quality Control	3		
		MS4013	Biomaterials	3		
		MS4014	Nanomaterials: fundamentals and applications	3		
		MS4089	Final Year Project	8		
		HE1001	Microeconomic Principles	3	12 AUs from	
	UE	HE1002	Macroeconomic Principles	3	compulsory Year 1	
		HE1002	<u> </u>	3	and 2 Economics	
			Intro to Probability & Statistical Inference		courses.	
		HE2005	Principles of Econometrics	3	Remaining 12 AUs	
		HExxxx	Economics Course 1	3	from 3 rd and 4 th	
		HExxxx	Economics Course 2	3	year Economics	
		HExxxx	Economics Course 3	3	courses that yield	
		HExxxx	Economics Course 4	4	the highest CGPA.	
	Major PE	MS46xx	Materials Engineering PE1	3		
		MS46xx	Materials Engineering PE2	3		
		MS46xx	Materials Engineering PE3	3	12 AUs	
		MS46xx	Materials Engineering PE4	3		
		HW0188	Engineering Communication I	2		
General Education Requirements (GER)	GER (Core)					
		HW0288	Engineering Communication II	2		
		ML0003	Kickstart your Career Success	1	14 411-	
		GC0001	Introduction to Sustainability	1		
		HY0001	Ethics and Moral Reasoning	1	14 AUs	
		ET0001	Entrepreneurship and Innovation	1		
		MS0002	Engineers and Society	3		
		MS0003	Introduction to Data Science and Artificial Intelligence	3		
		1	3	4	5 AUs	
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	GER - UE		Elective		(PA Option) 140/141 AUs	

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