

Double Degree in Bachelor of Engineering (Mechanical Engineering) and Bachelor of Arts (Economics)

Students admitted from AY2018/2019

List of courses that contribute towards GPA Computation for BEng (Mechanical Engineering) – Mainstream				AU Load		
Discipline Requirement	Core	PH1011	Physics**	3	85 (PA)/ 90 (PI)	
		MH1810	Mathematics 1	3		
		MH1811	Mathematics 2	3		
		MA1008	Introduction to Computational Thinking	3		
		FE1073	Introduction to Engineering & Practices	1		
		MA1001	Dynamics	3		
		MA1002	Fundamental Engineering Materials	3		
		MA2001	Mechanics of Materials	3		
		MA2002	Theory of Mechanism	3		
		MA2003	Introduction to Thermo-fluids	3		
		MA2004	Manufacturing Processes	3		
		MA2005	Engineering Graphics	3		
		MA2006	Engineering Mathematics	3		
		MA2007	Thermodynamics	3		
		MA2009	Introduction to Electrical Circuits & Electronic Devices	3		
		MA2071	Laboratory Experiments (ME)	1		
		MA2079	Engineering Innovation and Design	2		
		MA3001	Machine Element Design	3		
		MA3002	Solid Mechanics and Vibration	3		
		MA3003	Heat Transfer	3		
		MA3004	Mathematical Methods in Engineering	3		
		MA3005	Control Theory	3		
		MA3006	Fluid Mechanics	3		
		MA3071	Engineering Experiments (ME)	1		
		MA3075/ MA3080	Professional Attachment / Professional Internship	5/ 10		
		MA4001	Engineering Design	4		
	MA4002	Fluid Dynamics	3			
	MA4079	Final Year Project	8			
		UE	HE1001	Microeconomic Principles	3	24 AU 12 AU from compulsory Year 1 and 2 Economics courses. Remaining 12 AU from 3 rd and 4 th year Economics courses that yield the highest CGPA.
			HE1002	Macroeconomic Principles	3	
	HE1005		Intro to Probability & Statistical Inference	3		
	HE2005		Principles of Econometrics	3		
			Economics Course 1	3		
			Economics Course 2	3		
			Economics Course 3	3		
			Economics Course 4	4		
	Major PE	MA48xx	Mechanical Engineering PE 1	3	12	
		MA48xx	Mechanical Engineering PE 2	3		
		MA48xx	Mechanical Engineering PE 3	3		
		MA48xx	Mechanical Engineering PE 4	3		
General Education Requirements (GER)	GER-Core	HW0188	Engineering Communication I	2	14	
		HW0288	Engineering Communication II	2		
		ML0003	Kickstart your Career Success	1		
		MA2018	Data Science and Artificial Intelligence	3		
		GC0001	Introduction to Sustainability	1		
		HY0001	Ethics and Moral Reasoning	1		
		ET0001	Entrepreneurship and Innovation	1		
	MA0101	Engineers & Society	3			
	GER-UE	-	GER-UE	5	5 (PA only)	
TOTAL					140	

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

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Students admitted from AY2018/2019

List of courses that contribute towards GPA Computation for BA (Economics) – Mainstream				AU Load	
Discipline Requirement	Core	HE1001	Microeconomic Principles	3	33
		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	
	MA4079	Final Year Project	8	39	
	Major PE	HExxxx	Economics PE1		3
		HExxxx	Economics PE2		3
		HExxxx	Economics PE3		3
		HExxxx	Economics PE4		3
		HExxxx	Economics PE5		3
		HExxxx	Economics PE6		3
		HExxxx	Economics PE7		3
		HExxxx	Economics PE8		3
		HExxxx	Economics PE9		3
		HExxxx	Economics PE10		4
		HExxxx	Economics PE11		4
		HExxxx	Economics PE12	4	
	UE	PH1011	Physics **	3	19 AU from all Year 1 Engineering courses
		MH1810	Mathematics 1	3	
		MH1811	Mathematics 2	3	
		MA1008	Introduction to Computational Thinking	3	
		MA1001	Dynamics	3	
		MA1002	Fundamental Engineering Materials	3	
		FE1073	Introduction to Engineering & Practices	1	
		MA2001	Mechanics of Materials	3	Remaining 20 AU from 1 st , 2 nd and 3 rd Year engineering courses that yield the highest CGPA
		MA2002	Theory of Mechanism	3	
		MA2003	Introduction to Thermo-fluids	3	
		MA2004	Manufacturing Processes	3	
		MA2005	Engineering Graphics	3	
MA2006		Engineering Mathematics	3		
MA2007		Thermodynamics	3		
MA2009		Introduction to Electrical Circuits & Electronic Devices	3		
MA2071		Laboratory Experiments (ME)	1		
MA2079		Engineering Innovation and Design	2		
MA3001		Machine Element Design	3		
MA3002		Solid Mechanics and Vibration	3		
MA3003	Heat Transfer	3			
MA3004	Mathematical Methods in Engineering	3			
MA3005	Control Theory	3			
MA3006	Fluid Mechanics	3			
MA3071	Engineering Experiments (ME)	1			
General Education Requirements (GER)	GER-Core	HW0188	Engineering Communication I	2	14
		HW0288	Engineering Communication II	2	
		ML0003	Kickstart your Career Success	1	
		MA2018	Data Science and Artificial Intelligence	3	
		GC0001	Introduction to Sustainability	1	
		HY0001	Ethics and Moral Reasoning	1	
		ET0001	Entrepreneurship and Innovation	1	
		MA0101	Engineers & Society	3	
TOTAL				125	

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List of courses that contribute towards GPA Computation for BEng (Mechanical Engineering) – Design/Robotics and Mechatronics Stream				AU Load	
Discipline Requirement	Core	PH1011	Physics**	3	85 (PA) / 90 (PI)
		MH1810	Mathematics 1	3	
		MH1811	Mathematics 2	3	
		MA1008	Introduction to Computational Thinking	3	
		FE1073	Introduction to Engineering & Practices	1	
		MA1001	Dynamics	3	
		MA1002	Fundamental Engineering Materials	3	
		MA2001	Mechanics of Materials	3	
		MA2002	Theory of Mechanism	3	
		MA2003	Introduction to Thermo-fluids	3	
		MA2004	Manufacturing Processes	3	
		MA2005	Engineering Graphics	3	
		MA2006	Engineering Mathematics	3	
		MA2009	Introduction to Electrical Circuits & Electronic Devices	3	
		MA2011/ MA2013	Mechatronics Systems Interfacing/ Creative Thinking and Design	3	
		MA2012/ MA2014	Introduction to Mechatronics Systems Design/ Product Presentation	3	
		MA2071	Laboratory Experiments (ME)	1	
		MA2079	Engineering Innovation and Design	2	
		MA3001	Machine Element Design	3	
		MA3002	Solid Mechanics and Vibration	3	
		MA3004	Mathematical Methods in Engineering	3	
		MA3005	Control Theory	3	
		MA3006	Fluid Mechanics	3	
		MA3010	Thermodynamics & Heat Transfer	3	
		MA3071	Engineering Experiments (ME)	1	
		MA3075/ MA3080	Professional Attachment / Professional Internship	5/10	
	MA4011/ MA4012	Engineering Product Design (Design Stream)/ Mechatronics Engineering Design (Robotics and Mechatronics Stream)	4		
	MA4079	Final Year Project	8		
	UE	HE1001	Microeconomic Principles	3	24 AU 12 AU from compulsory Year 1 and 2 Economics courses. Remaining 12 AU from 3 rd and 4 th year Economics courses that yield the highest CGPA.
		HE1002	Macroeconomic Principles	3	
		HE1005	Intro to Probability & Statistical Inference	3	
		HE2005	Principles of Econometrics	3	
			Economics Course 1 Economics Course 2 Economics Course 3 Economics Course 4	3 3 3 4	
Major PE	MA48xx	Mechanical Engineering Stream PE 1	3	12	
	MA48xx	Mechanical Engineering Stream PE 2	3		
	MA48xx	Mechanical Engineering Stream PE 3	3		
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General Education Requirements (GER)	GER-Core	HW0188	Engineering Communication I	2	14
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		ML0003	Kickstart your Career Success	1	
		MA2018	Data Science and Artificial Intelligence	3	
		GC0001	Introduction to Sustainability	1	
		HY0001	Ethics and Moral Reasoning	1	
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		HE2005	Principles of Econometrics	3			
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		HExxxx	Economics PE3	3			
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		HExxxx	Economics PE5	3			
		HExxxx	Economics PE6	3			
		HExxxx	Economics PE7	3			
		HExxxx	Economics PE8	3			
		HExxxx	Economics PE9	3			
		HExxxx	Economics PE10	4			
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