

Double Degree in Bachelor of Engineering (Mechanical Engineering) and Bachelor of Social Science (Economics)

Students admitted from AY2020/2021 ** Students without 'A' level Physics will read PH1012 Physics A (4 AU)

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	
		XXXXXX	Engineering Fundamentals 2	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		
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	Effective Communication	2	14
		HW0288	Engineering Communication	2	
		ML0003	Kickstart your Career Success	1	
		MA0218	Introduction to Data Science and Artificial Intelligence	3	
		GC0001	Sustainability: Seeing Through The Haze	1	
		HY0001	Ethics and Moral Reasoning	1	
		ET0001	Entrepreneurship and Innovation	1	
	EG0001	Engineers and Society	3		
GER-UE	-	GER-UE	5	5 (PA only)	
TOTAL				140	

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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	
	Major PE	HExxxx Economics PE1	3	39
		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	22 AU from all Year 1 Engineering courses
		MH1810 Mathematics 1	3	
		MH1811 Mathematics 2	3	
		MA1008 Introduction to Computational Thinking	3	
		MA1001 Dynamics	3	
		XXXXXX Engineering Fundamentals 2	3	
		FE1073 Introduction to Engineering & Practices	1	
		MA2003 Introduction to Thermo-fluids	3	
		MA2001 Mechanics of Materials	3	
		MA2002 Theory of Mechanism	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 Effective Communication	2	14
		HW0288 Engineering Communication	2	
		ML0003 Kickstart your Career Success	1	
		MA0218 Introduction to Data Science and Artificial Intelligence	3	
		GC0001 Sustainability: Seeing Through The Haze	1	
		HY0001 Ethics and Moral Reasoning	1	
		ET0001 Entrepreneurship and Innovation	1	
		EG0001 Engineers & Society	3	
		TOTAL		

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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	
		XXXXXX	Engineering Fundamentals 2	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	3	
	Economics Course 2	3			
	Economics Course 3	3			
	Economics Course 4	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		
	MA48xx	Mechanical Engineering Stream PE 4	3		
General Education Requirements (GER)	GER-Core	HW0188	Effective Communication	2	14
		HW0288	Engineering Communication	2	
		ML0003	Kickstart your Career Success	1	
		MA0218	Introduction to Data Science and Artificial Intelligence	3	
		GC0001	Sustainability: Seeing Through The Haze	1	
		HY0001	Ethics and Moral Reasoning	1	
		ET0001	Entrepreneurship and Innovation	1	
	EG0001	Engineers & Society	3		
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			TOTAL	140	

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		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		
	Major PE	HExxxx Economics PE1	3	39	
		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	22 AU from all Year 1 Engineering courses	
		MH1810 Mathematics 1	3		
		MH1811 Mathematics 2	3		
		MA1008 Introduction to Computational Thinking	3		
		MA1001 Dynamics	3		
		XXXXXX Engineering Fundamentals 2	3		
		FE1073 Introduction to Engineering & Practices	1		
		MA2003 Introduction to Thermo-fluids	3		
		MA2001 Mechanics of Materials	3		Remaining 17 AU from 1 st , 2 nd and 3 rd Year Engineering courses that yield the highest CGPA
		MA2002 Theory of Mechanism	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 and Heat Transfer		3			
MA3071 Engineering Experiments (ME)		1			
General Education Requirements (GER)		GER-Core	HW0188 Effective Communication	2	
			HW0288 Engineering Communication	2	
	ML0003 Kickstart your Career Success		1		
	MA0218 Introduction to Data Science and Artificial Intelligence		3		
	GC0001 Sustainability: Seeing Through The Haze		1		
	HY0001 Ethics and Moral Reasoning		1		
	ET0001 Entrepreneurship and Innovation		1		
	EG0001 Engineers and Society		3		
	TOTAL			125	