

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 Economics Course 2 Economics Course 3 Economics Course 4	3 3 3 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	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				5	140

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List of courses that contribute towards GPA Computation for BSocSci (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	
	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	
		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			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
		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
		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
		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
		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
	GER-UE	-	GER-UE	5 (PA only)
	TOTAL			140

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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	
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	UE	PH1011	Physics **	3	22 AU from all Year 1 Engineering courses
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		ET0001	Entrepreneurship and Innovation	1	
		EG0001	Engineers and Society	3	
		TOTAL			