

← Declaration of major

School:		School of Engineering and School of Business Management			Student's Pathways (i.e. Study Pattern)											Remarks
Department:		Dual Degree Program (BEng in Mechanical Engineering and BBA in General Business Management)			Pathway 1											
Program:					Background: HKDSE 4 Core + 2 Elec (incl. 1/2x PHYS) Profile: Normative Students to graduate in (Beng & BBA) MEGBM											
Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub-total		
<b>BEng in Mechanical Engineering</b>																
<b>Major Requirements</b>																
Engineering Fundamental Courses																
COMP	1021	Note: COMP1021 OR COMP1022P OR COMP1022Q OR COMP2011	3-4													
COMP	1022P	Introduction to Computer Science	3	3										3	This course will also be used to substitute ISOM 2010	
COMP	1022Q	Introduction to Computing with Java	3													
COMP	2011	Introduction to Computing with Excel VBA	4													
COMP	2011	Introduction to Object-oriented Programming	4													
ENGG	1010	Academic Orientation	0	0										0		
LANG	2030	Technical Communication I	3				3							3		
MATH		Note: (MATH1012 OR MATH1013 OR MATH1023) AND (MATH1014 OR MATH1024) OR [MATH1020]	4-7													
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3													
MATH	1014	Calculus II	3	3	3									6		
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
MATH	1024	Honors Calculus II	3													
PHYS		Note: PHYS1112 OR PHYS1312	3													
PHYS	1112	General Physics I with Calculus	3		3									3		
PHYS	1312	Honors General Physics I	3													
CHEMLIFS/ PHYS		Science 1000-level course (Any 1 course of the subject and level as specified)	3		3									3		
<b>Required credits for Engineering Fundamental Courses</b>			16-20											18		
<b>Major Required Courses and Electives</b>																
MECH	1990	Industrial Training	0			0*	0^							0		
MECH	2020	Statics and Dynamics	3			3								3		
MECH	2040	Solid Mechanics I	3						3					3		
MECH	2210	Fluid Mechanics	3						3					3		
MECH	2310	Thermodynamics	3			3								3		
MECH	2410	Engineering Materials I	3				3							3		
MECH	2520	Design and Manufacturing I	3				3							3		
MECH	2907	Mechatronic Design and Prototyping	3						3					3		
MECH	3030	Mechanisms of Machinery	3									3		3		
MECH		Note: MECH3300 OR MECH3420 OR MECH3520	3													
MECH	3300	Energy Conversion	3							3				3		
MECH	3420	Engineering Materials II	3													
MECH	3520	Design and Manufacturing II	3													
MECH	3310	Heat Transfer	3							3				3		
MECH	3610	Control Principles	3					3						3		
MECH	3630	Electrical Technology	3						3					3		
MECH	3830	Laboratory	3								3			3		
MECH	4900	Final Year Design Project	6									3	3	6		
ELEC	2420	Basic Electronics	3			3								3		
ENGG	2010	Engineering Seminar Series	0			0	0	0	0					0		
MATH	2011	Introduction to Multivariable Calculus	3								3			3		
MATH		Note: MATH2111 OR MATH2350 OR MATH2351	3													
MATH	2111	Matrix Algebra and Applications	3								3			3		
MATH	2350	Applied Linear Algebra and Differential Equations	3													
MATH	2351	Introduction to Differential Equations	3													
LANG	4034	Technical Communication II for Mechanical and Aerospace Engineering	3									3		3		
<b>Required credits for Major Requirements Courses and Electives</b>			57											57		
<b>BBA in General Business Management</b>																
<b>School Requirements</b>																
ACCT	2010	Principles of Accounting I	3			3								3		
ACCT	2200	Principles of Accounting II	3							3				3		
ECON		Note: ECON 2103 OR ECON 2113	3													
ECON	2103	Principles of Microeconomics	3			3								3		
ECON	2113	Microeconomics	3													
ECON		Note: ECON 2123 OR ECON 3123 (Students who wish to pursue BSc ECOF must take ECON 3123)	3						3					3		
ECON	2123	Macroeconomics	3													
ECON	3123	Macroeconomic Theory I	3													
FINA	2303	Financial Management	3						3					3		
ISOM	2010	Introduction to Information Systems	3	---	---	---	---	---	---	---	---	---	---	0	Substituted by COMP 1021/1022P/1022Q	
ISOM	2500	Business Statistics	3				3							3		
ISOM	2700	Operations Management	3							3				3		
MARK	2120	Marketing Management	3				3							3		
MGMT	2010	Business Ethics and the Individual	2					2						2		
MGMT	2110	Organizational Behavior	3					3						3		
MGMT	2130	Business Ethics and Social Responsibility	2									2		2		
SBMT	1111	Business Student Induction	0	---	---	---	---	---	---	---	---	---	---	0	Waived for DDP students	
LABU	2040	Business Case Analyses	3				3							3		
LABU	2060	Effective Communication in Business	3						3					3		
MATH		Note: MATH1003 OR MATH1012 OR MATH1013 OR MATH1020 OR MATH1023	3-4													
MATH	1003	Calculus and Linear Algebra	3													
MATH	1012	Calculus IA	4													
MATH	1013	Calculus IB	3													
MATH	1020	Accelerated Calculus	4													
MATH	1023	Honors Calculus I	3													
<b>Required credits for School Requirements</b>			43-44											37		
<b>Major Requirements</b>																
Major Required Courses and Electives																
SB&M		SB&M Electives (Any 9 courses offered by the departments under SB&M, of which at least 4 courses are of 3000-level or above.)	29		3			3		3		6	4	10	29	
<b>Required credits for Major Required Courses and Electives</b>			29											29		
<b>Additional Requirements</b>																
<b>Requirements for Dual Degree Program</b>																
Required Courses																
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0		
<b>Required credits for Additional Requirements</b>			0											0		
<b>University CORE</b>																
CORE	C3 - C12	U CORE - Others	30	9	3	3				3	6	3	3	30		
CORE	C1 & C2	U CORE - English Language	6	3	3									6		
<b>Sub-total for University CORE</b>			36											36		
Term load (excl. free credits)																
				18	18	18	18	20	18	18	18	15	16			
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Notes:

( ) indicates the reuse of the same course to fulfill more than one requirement.

\* Courses offered in winter term

^ Courses offered in summer term

--- denotes the course/requirement is either waived or substituted

## To graduate, students should complete all requirements as specified for DDP.

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\*\*Remarks on course(s):

>> The content of this example is not necessarily equivalent to a complete list of graduation requirements of the program. Students should refer to the Program Catalog/UG Curriculum Handbook for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.