

<< Declaration of major

School:		School of Engineering and School of Business Management		Student's Pathways (i.e. Study Pattern)															
Department:				Pathway 1															
Program:		Dual Degree Program (BEng in Computer Engineering and BBA in General Business Management)		Background: HKDSE 4 Core + 2 Elec (incl. 1/2x PHYS)															
Course Offering Dept. (course code prefix)		Course Code		Course Title / Courses List		Credits		Profile: Normative Students to graduate in (Beng & BBA) CPGBM											
								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	Remarks

BEng in Computer Engineering

Major Requirements

Engineering Fundamental Courses

COMP		Note: COMP 1021 OR COMP 1022P OR COMP 1022Q OR COMP 2011	3																
COMP	1021	Introduction to Computer Science	3															3	This course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3	3															
COMP	1022Q	Introduction to Computing with Excel VBA	3																
ENGG	1010	Academic Orientation	0	0	0													0	
LANG	2030	Technical Communication I	3				3											3	
MATH		Note: [(MATH1012 OR MATH1013 OR MATH1023) AND (MATH1014 OR MATH1024)] OR [MATH1020]	4-6																
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																
MATH	2011	Introduction to Multivariable Calculus	3								3							3	
MATH	2111	Matrix Algebra and Applications	3								3							3	
PHYS		Note: PHYS 1112 OR PHYS 1312	3																
PHYS	1112	General Physics I with Calculus	3	3														3	
PHYS	1312	Honors General Physics I	3																
PHYS		Note: PHYS 1114 OR PHYS 1154 OR PHYS 1314	3																
PHYS	1114	General Physics II	3									3						3	
PHYS	1314	Honors General Physics II	3																
SENG		Engineering Introduction course (If the students take an introduction course included in their major, this course can be counted towards their major requirement.)	3-4															3	
Required credits for Engineering Fundamental Courses			25-28															27	

Major Required Courses and Electives

COMP		Note: (COMP 2011 AND COMP 2012) OR COMP 2012H	5-8																
COMP	2011	Introduction to Object-oriented Programming	4				4											8	
COMP	2012	Object-Oriented Programming and Data Structures	4								4								
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5																
COMP/ELEC		Note: COMP 2611 OR ELEC 2300	4																
COMP	2611	Computer Organization	4								4							4	
ELEC	2300	Computer Organization (co-reg ELEC 2200)	4																
COMP/ELEC		Note: COMP 2711 OR COMP 2711H OR ELEC 2600	4																
COMP	2711	Discrete Mathematical Tools for Computer Science	4											4				4	
COMP	2711H	Honors Discrete Mathematical Tools for Computer Science	4																
ELEC	2600	Probability and Random Processes in Engineering	4																
COMP	3511	Operating Systems	3												3			3	
COMP/ELEC		Note: COMP 4521 OR COMP 4611 OR ELEC 4310	3-4																
COMP	4521	Mobile Application Development	3													3		3	
COMP	4611	Design and Analysis of Computer Architectures	3																
ELEC	4310	Embedded System Design	4																
COMP		Note: (CPEG4902 OR CPEG4903) AND (ELEC2100 OR ELEC2400) OR (ELEC2200 OR ELEC2400)	6																
CPEG	4902	Industrial Experience	0																
CPEG	4901	Computer Engineering Final Year Project in COMP	6																
CPEG	4902	Computer Engineering Final Year Thesis in COMP	6													3	3	6	
CPEG	4911	Computer Engineering Final Year Project in ELEC	6																
CPEG	4912	Computer Engineering Final Year Thesis in ELEC	6																
CPEG	4910	Co-op Program	6																
ELEC		Note: ELEC 1100 OR ELEC 1200	4																
ELEC	1100	Introduction to Electro-Robot Design	4				4											4	
ELEC	1200	A System View of Communications: from Signals to Packets	4																
ELEC		Note: ELEC 2100 OR ELEC 2400	4																
ELEC	2100	Signals and Systems	4										4					4	
ELEC	2400	Electronic Circuits	4																
ELEC	2200	Digital Circuits and Systems	4							4								4	
CPEG	2930	Academic and Professional Development I	0				0	0										0	
ELEC	3300	Introduction to Embedded Systems	4												4			4	
CPEG	3930	Academic and Professional Development II	0							0	0							0	
ENGG	2010	Engineering Seminar Series	0				0	0	0	0								0	
LANG		Note: LANG 4030 OR LANG 4031	3																
LANG	4030	Technical Communication II for CSE & CPEG	3														3	3	
LANG	4031	Technical Communication II for ECE & CPEG	3																
COMP/ELEC		Area Courses (At least 4 courses from the specified elective list, of which at least 2 courses should be taken from one single area and at least 2 courses outside that area. Courses taken as Major Required Courses may not be counted towards the elective requirement.)	15												4	4	7	15	
Required credits for Major Requirements Courses and Electives			59-63															62	

BBA in General Business Management

School Requirements

ACCT	2010	Principles of Accounting I	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																
ECON	2123	Macroeconomics	3								3							3	
ECON	3123	Macroeconomic Theory I	3																
FINA	2303	Financial Management	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	
MARK	2120	Marketing Management	3								3							3	
MGMT	2010**	Business Ethics and the Individual	2															2	
MGMT	2110	Organizational Behavior	3															3	
MGMT	2130	Business Ethics and Social Responsibility	2															2	
SBMT	1111	Business Student Induction	0															0	Waived for DDP students
LABU	2060**	Effective Communication in Business**	3															3	
LABU	2040**	Business Case Analyses**	3								3							3	
MATH		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	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																
Required credits for School Requirements			43-44															37	

Major Requirements

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	4							7	5	10	29	
Required credits for Major Required Courses and Electives			29															29	

Additional Requirements

Requirements for Dual Degree Program

Required Courses

TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Required credits for Additional Requirements			0															0	

University CORE

CORE	C3 - C12	U CORE - Others	30	6	6							0	9	9				30	
CORE	C1 & C2	U CORE - English Language	6	3	3													6	
Sub-total for University CORE			36															36	

Term load (excl. free credits)

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