

School:		School of Engineering and School of Business Management		Student's Pathways (i.e. Study Pattern)													
Program:		Dual Degree Program (BEng in Bioengineering and BBA in General Business Management)		Background: HKDSE 4 Core + 2 Elec (incl. 112X PHYS, 112X CHEM) Profile: Normative Students to graduate in (Beng & BBA) BEGBM													
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	Remarks		
BEng in Bioengineering																	
Major Requirements																	
Engineering Fundamental Courses																	
COMP	1021	Introduction to Computer Science	3-4														
COMP	1022P	Introduction to Computing with Java	3		3									3	This course will also be used to substitute ISOM 2010 (Except COMP2011)		
COMP	1022Q	Introduction to Computing with Excel VBA	3														
COMP	2011	Programming with C++	4														
ENGG	1010	Academic Orientation	0	0	0									0			
CHEM	1010	General Chemistry IA	3														
CHEM	1020	General Chemistry IB	3	3										3			
CHEM	1050	Laboratory for General Chemistry I	1	1										1			
LANG	2030	Technical Communication I	3				3							3			
LIFS	1901	General Biology I	3	3										3			
MATH	1012	Note: [MATH 1012 OR MATH 1013 OR MATH 1023] AND [MATH 1014 OR MATH 1024] OR [MATH 1022]	4-7														
MATH	1013	Calculus IA	4														
MATH	1014	Calculus IB	3	3										6			
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
MATH	1024	Honors Calculus II	3														
PHYS	1112	Note: PHYS 1112 OR PHYS 1312	3														
PHYS	1312	General Physics I with Calculus	3	3										3			
PHYS		Honors General Physics I	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)									0			
Required credits for Engineering Fundamental Courses																	
				20-29												22	
Major Required Courses and Electives																	
CENG/BIEN	1000	Note: CENG 1000 OR BIEN1010	3														
CENG	1010	Introduction to Chemical and Biological Engineering	3		3										3		
BIEN	2310	Introduction to Biomedical Engineering	3														
BIEN	2310	Modeling for Chemical and Biological Engineering	3						3						3		
BIEN	2410	Cellular and Systems Physiology for Engineers	3						3						3		
BIEN	2510	Chemical Biology for Engineers	3				3								3		
BIEN	2990	Academic and Professional Development I	1			1									1		
BIEN	3240	Transport Phenomena in Biological Systems	3									3			3		
BIEN	3320	Data Science for Biology and Medicine	3				3								3		
BIEN	3410	Introduction to Bioinstrumentation and Biomaging	3									3			3		
BIEN	3910	Bioengineering Laboratory	4									4			4		
BIEN	4920	Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940	6										3	3	6		
BIEN	4930	Bioengineering Capstone Design	6														
BIEN	4940	Bioengineering Thesis Research	6														
BIEN	4990	Bioengineering Industrial Project	6														
BIEN	4990	Academic and Professional Development II	1									1			1		
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3								3		
CENG	3230	Chemical and Biological Reaction Engineering	3									3			3		
ENGG	2010	Engineering Seminar Series	0			0	0	0	0	0	0				0		
ISOM/LIFS/	2500	Note: ISOM 2500 OR LIFS 3150 OR MATH 2411	3-4														
MATH	3150	Business Statistics	3														
LIFS	3411	Statistics	4						3						3		
MATH	2411	Applied Statistics	3														
LANG	4030*	Technical Communication II for Chemical and Biological Engineering	3									3			3		
Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be taken from a single speciality area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should be at 4000-level)																	
SCSI/SENG			15									6	3	6	15		
Required credits for Major Required Courses and Electives																	
				60-61												60	
BBA in General Business Management																	
School Requirements																	
ACCT	2010	Principles of Accounting I	3			3									3		
ACCT	2200	Principles of Accounting II	3												3		
ECON	2103	Note: ECON 2103 OR ECON 2113	3														
ECON	2113	Principles of Microeconomics	3			3									3		
ECON	2113	Microeconomics	3														
ECON	2123	Principles of Macroeconomics	3														
ECON	3123	Macroeconomics Theory I	3						3						3		
FINA	2303	Financial Management	3							3					3		
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	-	0		
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	-	0		
ISOM	2700	Operations Management	3	-	-	-	-	-	-	3	-	-	-	-	0		
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		
LABU	2040	Business Case Analyses	3				3								3		
LABU	2060	Effective Communication in Business	3							3					3		
MATH	1003	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4														
MATH	1012	Calculus and Linear Algebra	3														
MATH	1013	Calculus IA	4		(3)												
MATH	1013	Calculus IB	3														
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
Required credits for School Requirements																	
				43-44												34	
Major Requirements																	
Major Required Courses and Electives																	
SBAM		SBAM Electives (Any 9 courses offered by the departments under SBAM, of which at least 4 courses are at 3000-level or above.)	29		3							6	9	4	4	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		
Required credits for Additional Requirements																	
				0												0	
University CORE																	
CORE	C3 - C12	U CORE - Others	30	3	3	6	3	3	3	3	3	3	3	3	30		
CORE	C1 & C2	U CORE - English Language	6	3	3										6		
Sub-total for University CORE																	
				36												36	
Term load (excl. free credits)																	
				19	18	18	20	18	18	19	18	17	16				
181																	

Note:
 () indicates the reuse of the same course to fulfill more than one requirement.
 --- denotes the course/requirement is either waived or substituted
 *# To graduate, students should complete all requirements specified for DDP.

*Remarks on course(s):
 LANG 4030: This is a new course to take effect in Fall, 2019-20.
 ** 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.