

			<< Selection of BEng major		<< Declaration of BEng major		<< Selection of BBA major																		
School:			School of Engineering and School of Business Management			Student's Pathway																			
Program:			Dual Degree Program (BEng in Bioengineering and BBA in General Business Management)																						
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																									
Engineering Fundamental Courses																									
COMP	1022P	Note: COMP 1022P OR COMP 1023 OR COMP 2011 OR COMP 2012H	3-5												Students should take COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM 2010 and to waive ISOM 2020										
COMP	1023	Introduction to Computing with Java	3		3									3											
COMP	2011	Introduction to Python Programming	4																						
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5																						
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3	3										3	Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901										
CHEM	1052	Laboratory for General Chemistry B	1		1									1											
LIFS	1901	Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901	0-3	3																					
MATH		Note: MATH 1013 OR MATH 1020 OR MATH 1023	3-4																						
MATH	1013	Calculus I	3		3									3	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees										
MATH	1020	Accelerated Calculus	3																						
MATH	1023	Honors Calculus I	4																						
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																						
Required Credits for Engineering Fundamental Courses				13-19	9	7	0	0	0	0	0	0	0	0	16										
Major Required Courses and Electives																									
BIEN	1600	Introduction to Bioengineering	3		3									3	Those entering the Bioengineering in Year 2 will take this course in Year 2 Spring.										
BIEN	2410	Cellular and Systems Physiology for Engineers	3				3							3											
BIEN	2610	Chemical Biology for Engineers	3				3							3											
BIEN	3250	Rate and Transport Processes in Biological Systems	3					3						3											
BIEN	3300	Data Science for Molecular Engineering	3			3								3	BIEN 3310/3320 which will also be used to substitute ISOM 2600										
BIEN		Note: BIEN 3310 OR BIEN 3320	3																						
BIEN	3310	Data Science for Neural Engineering	3					3						3											
BIEN	3320	Data Science for Biology and Medicine	3																						
BIEN	3410	Bioimaging and Image Analysis	3					3						3											
BIEN	3420	Biosensors and Bioinstrumentation for Healthcare	3					3						3											
BIEN	3910	Bioengineering Laboratory	4					4						4											
BIEN		Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940	6																						
BIEN	4920	Bioengineering Capstone Design	6									3	3	6											
BIEN	4930	Bioengineering Thesis Research	6																						
BIEN	4940	Bioengineering Industrial Project	6																						
CENG	1000	Foundations of Chemical and Biological Engineering	3	3										3											
CENG	1010	Academic and Professional Development I	0	0										0	Those entering the Bioengineering in Year 2 will take this course in Year 2 Fall.										
CENG	2210	Chemical and Biological Engineering Thermodynamics	3				3							3											
CENG	2310	Modeling for Chemical and Biological Engineering I	3				3							3											
CENG	2320	Modeling for Chemical and Biological Engineering II	3					3						3											
CENG	4020	Academic and Professional Development II	0						0					0	Those entering the Bioengineering in Year 2 will take this course in Year 2 Fall.										
SCSIBENG/AB		Bioengineering Electives (5 courses from the specified elective list, of which at least 9 credits should be taken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 9 credits should be at 4000-level or above). Courses taken as Major Required Courses may not be counted towards the elective requirement.	15						6	3	6			15											
BEng in Bioengineering Major Requirements				61	3	3	9	9	10	12	3	6	3	3		61									
BBA in General Business Management																									
School Requirements																									
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				3																		
ECON	2103	Principles of Microeconomics	3											3											
ECON	2113	Microeconomics	3																						
ECON		Note: ECON 2123 OR ECON 3123	3																						
ECON	2123	Macroeconomics	3							3				3											
ECON	3123	Macroeconomic Theory I	3																						
FINA	2303	Financial Management	3				3							3											
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0											
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0											
ISOM	2500	Business Statistics	3	-	3	-	-	-	-	-	-	-	-	3											
ISOM	2600	Introduction to Business Analytics	1											0	Substituted by BIEN 3310/3320										
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											
MATH		Note: MATH 1023 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4																						
MATH	1003	Calculus and Linear Algebra	3		(3)																				
MATH	1013	Calculus I	3											0	DDP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees										
MATH	1020	Accelerated Calculus	4																						
MATH	1023	Honors Calculus I	3																						
Required Credits for School Requirements				39-40	3	3	3	9	3	3	3	2	0	2		31									
Major Required Courses and Electives																									
SBBM		SBBM Electives (Any 9 courses offered by the departments under SBBM, of which at least 4 courses are of 3000-level or above.)	29						3	4		4	9	6	3	29									
Required Credits for Major Required Courses and Electives				29	0	0	0	0	0	3	4	4	9	6	3	29									
Additional Requirement for Dual Degree																									
Requirements for Dual Degree Program																									
TEMG	1011	T&M Professional Activities I	0	0	0									0	To graduate, students should complete ALL requirements as specified for DDP.										
TEMG	1012	T&M Professional Activities II	0				0	0						0											
TEMG	1013	T&M Professional Activities III	0					0	0					0											
TEMG	1014	T&M Professional Activities IV	0							0	0			0											
TEMG	1015	T&M Professional Activities V	0									0	0	0											
TEMG	3950	T&M Case Analysis and Product Innovation	3		3									3											
TEMG	4950	T&M Corporate Consulting Project	3-5							4				4											
Required Credits for Additional Requirements				7	0	3	0	0	0	0	0	4	0	0	7										
University Common Core Requirement																									
CORE	C3 - C10	U CORE - Others	21	3		6		3		3			3	3	21										
CORE	C1 & C2	U CORE - English Language	6	3	3										6										
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2										3										
Sub-total for University CORE				30	7	5	6	0	3	0	3	0	3	3	30										
															Term load (excl. free credits)										
															22	21	18	18	19	19	17	17	12	11	
															174										