

		← Selection of BEng major		← Declaration of BEng major		← Selection of BBA major		Student's Pathway									
School:	School of Engineering and School of Business Management																
Program:	Dual Degree Program (BEng in Bioengineering and BBA in Global Business)																
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 2 Fall	Year 2 Spring	Year 2 Fall	Year 2 Spring	Year 2 Fall	Year 2 Spring	Year 2 Fall	Year 2 Spring	Sub-total	Remarks
BEng in Bioengineering																	
Engineering Fundamental Courses																	
		Note: COMP 1022P OR COMP 1023 OR COMP 2011 OR COMP 2012H	3-5														
COMP	1022P	Introduction to Computing with Java	3		3											3	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 Python Programming	3														
COMP	2011	Programming with C++	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
CHEM	1052	Laboratory for General Chemistry B	1		1												1
LIFS	1901	General Biology I	3	3													3
Students with level 3 or above in HKDSE 1st Biology are exempted from taking LIFS 1901																	
		Note: MATH 1013 OR MATH 1020 OR MATH 1023	3-4														
MATH	1013	Calculus I	4		3												3
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	4														
DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees																	
		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 16-19 9 7 0 0 0 0 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
		Note: BIEN 3310 OR BIEN 3320	3														
BIEN	3310	Data Science for Neural Engineering	3					[3]		3							3
BIEN	3320	Data Science for Biology and Medicine	3														
BIEN	3410	Introduction to Biomaterialization and Bioimaging	3					3									3
BIEN	3420	Biosensors and Biomaterialization for Healthcare	3						3								3
BIEN	3910	Bioengineering Laboratory	4					4									4
		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
		Bioengineering Electives (8 courses from the specified elective list, of which at least 5 credits should be taken from a single specialty area (Area 1 or Area 2). Out of the 15 credits taken, at least 5 credits should be at 4000-level or above). Courses taken as Major Required Courses may not be counted towards this elective requirement.	15								3	3	3	6		15	
BEng in Bioengineering Major Requirements 61 3 3 9 9 10 6 3 3 6 9 61																	
BBA in Global Business																	
School Requirements																	
ACCT	2010	Principles of Accounting I	3	3													3
ACCT	2200	Principles of Accounting II	3						3								3
		Note: ECON 2103 OR ECON 2113	3														
ECON	2103	Principles of Microeconomics	3			3											3
ECON	2113	Microeconomics	3														
		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
COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H instead of ISOM 2010.																	
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	-	-		0
ISOM 2020 is waived for DDP students who have taken and passed COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H. These COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.																	
ISOM	2500	Business Statistics	3														3
ISOM	2505	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
		Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4														
MATH	1003	Calculus and Linear Algebra	3														
MATH	1013	Calculus I	3		(3)												0
MATH	1020	Accelerated Calculus	4														
MATH	1023	Honors Calculus I	3														
DDP students should take MATH 1013 and MATH 1023 or MATH 1020 to satisfy the requirements of both BEng and BBA degrees																	
Required credits for School Requirements 39-40 3 3 3 3 9 3 3 3 3 2 0 2 31																	
Major Required Courses and Electives																	
GBUS	1000	Global Leadership Development	0					0	0	0	0	0	0	0	0	0	
GBUS	2010	Global Business Analysis	3						3								3
		Note: GBUS 2040 OR SMT 2100-2110	1-4														
GBUS/SMT	2040	Environmental, Social, and Governance (ESG) Corporate Project	1							1		[1]					1
SMT	2100-2110	Community Services Project	4														
		Note: GBUS 3030 OR ISOM 4700	3-4														
GBUS/ISOM	3030	Global Business Case Studies	4								3		[3]				3
ISOM	4700	Integrated Planning and Execution	3														
GBUS	4910	Capstone Project	4											4	[4]		4
GBUS		Global Business Electives (Courses from the specified elective list, of which at least 6 credits from each area and at least 2 courses must be offered by GBUS. Courses taken to fulfill requirements of an additional major in SMT may not be counted towards this elective requirement.)	15									6	3	6	15		
Required Credits for Major Required Courses and Electives 26-30 0 0 0 0 0 0 4 3 6 7 6 26																	
Additional Requirement for Dual Degree																	
Requirements for Dual Degree Program																	
TEMG	1011	TAM Professional Activities I	0	0	0	0											0
TEMG	1012	TAM Professional Activities II	0			0	0										0
TEMG	1013	TAM Professional Activities III	0					0	0								0
TEMG	1014	TAM Professional Activities IV	0							0	0	0					0
TEMG	1015	TAM Professional Activities V	0									0	0	0			0
TEMG	3950	TAM Case Analysis and Product Innovation	3		3												3
TEMG	4950	TAM Corporate Consulting Project	3-5							4							4
Required Credits for Additional Requirements 7 0 3 0 0 0 0 4 0 0 0 0 0 0 7																	
University Common Core Requirement																	
CORE	C3 - C9	U-CORE - Others	21				3		3			6	6	3			21
CORE	C1 & C2	U-CORE - English Language	6	3	3												6
HBAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2												3
Sub-total for University CORE 30 4 5 3 0 3 0 3 6 6 3 0 30																	
Term-load (excl. free credits)																	
19 21 15 18 16 17 15 17 16 17 171																	