The Hong Kong University of Science and Technology
Interdisciplinary Programs Office
An Example on Student's Pathway

BEGBM **2019-20 Intake** (Via DDP PBA)

<< Declaration of 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
Major Requirements
Engineering Fundamental Courses

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
		Note: [COMP 1021] OR [(COMP 1022P OR COMP 1022Q OR COMP 2011) AND COMP1029P]	3-5												
COMP	1021	Introduction to Computer Science	3		3									3	The course will also be used to substitute ISOM 2010
COMP	1022P	Introduction to Computing with Java	3												
COMP	1022Q	Introduction to Computing with Excel VBA	3												
COMP	1029P	Python Programming Bridging Course	1												
COMP	2011	Programming with C++	4												
ENGG	1010	Academic Orientation	0	0	0									0	
		Note: CHEM1010 OR CHEM 1020													
CHEM	1010	General Chemistry IA	3	3										3	
CHEM	1020	General Chemistry IB	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	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7												
MATH	1012	Calculus IA	4	3	3									6	
MATH	1013	Calculus IB	3												
MATH	1014	Calculus II	3												
MATH	1020	Accerlerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
		Note: PHYS 1112 OR PHYS 1312													
PHYS	1112	General Physics I with Calculus	3	3										3	
PHYS	1312	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	23-29											22	

Major Required Courses and Electives

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
		Note: BIEN 1010 OR CENG 1000													
BIEN	1010	Introduction to Biomedical Engineering	3		3									3	
CENG	1000	Introduction to Chemical and Biological 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	2610	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 Bioimaging	3							3				3	
BIEN	3910	Bioengineering Laboratory	4							4				4	
		Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940													
BIEN	4920	Bioengineering Capstone Design	6									3	3	6	
BIEN	4930	Bioengineering Thesis Research	6												
BIEN	4940	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	
		Note: LIFS 3150 OR MATH 2411	3-4												
LIFS	3150	Biostatistics	3			3								3	
MATH	2411	Applied Statistics	4												
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3									3		3	
SSCI/SENG		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)	15							6	3	6		15	
		Required credits for Major Required Courses and Electives	60-61											60	

BBA in General Business Management
School Requirements

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
		Note: ECON 2103 OR ECON 2113													
ECON	2103	Principles of Microeconomics	3					3						3	
ECON	2113	Microeconomics	3												
		Note: ECON 2123 OR ECON 3123													
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	Substituted by COMP 1021/1022P/1022Q/COMP2011
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/1022Q/1029P/2011
ISOM	2500	Business Statistics	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by LIFS 3150/MATH 2411
ISOM	2600	Introduction to Business Analytics	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by BIEN3320
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	Substituted by ENGG 1010
LABU	2040	Business Case Analyses	3				3							3	
LABU	2060	Effective Communication in Business	3						3					3	
		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												DDP students should take MATH 1012 or MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH	1003	Calculus and Linear Algebra	3												
MATH	1012	Calculus IA	4		(3)									0	
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

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
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				6		3	9	4	7		29	
		Required credits for Major Required Courses and Electives	29											29	

Additional Requirements
Requirements for Dual Degree Program
Required Courses

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
TEMG	1010	Technology and Management Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950	Case-based Problem Solving	2		2									2	
		Required credits for Additional Requirements	0											2	

University CORE

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub-total	Remarks
CORE	C3 - C12	U CORE - Others	30	3	3	3	3	3	6	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)

	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S
	19	17	18	20	18	18	19	18	17	19

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<< Declaration of major

Note:

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

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

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

**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.