The Hong Kong University of Science and Technology

Interdisciplinary Programs Office

An Example on Student's Pathway

BEGBM **2020-21 Intake**

(Via DDP PBA)

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	<< *Declaration of BEng major* Year 2 Fall	Year 2 Spring	<< *Declaration of BBA major* 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 COMP COMP COMP	1021 1022P 1029P 2011	Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P] Introduction to Computer Science Introduction to Computing with Java Python Programming Bridging Course Programming with C++	3-5 3 3 1 4		3									3	The course will also be used to substitute ISOM 2010
ENGG	1010	Academic Orientation	0	0	0									0	
CHEM CHEM	1010 1020	Note: CHEM1010 OR CHEM 1020 General Chemistry IA General Chemistry IB	3 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 MATH MATH MATH MATH MATH	1012 1013 1014 1020 1023 1024	Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] Calculus IA Calculus IB Calculus II Accelerated Calculus Honors Calculus I Honors Calculus II	4-7 4 3 3 4 3 3	3	3									6	
PHYS PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors General Physics I	3 3	3										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															
BIEN CENG	1010 1000	Note: BIEN 1010 OR CENG 1000 Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering	3 3		3									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	
BIEN BIEN BIEN	4920 4930 4940	Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 Bioengineering Capstone Design Bioengineering Thesis Research Bioengineering Industrial Project	6 6 6									3	3	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	
LIFS MATH	3150 2411	Note: LIFS 3150 OR MATH 2411 Biostatistics Applied Statistics	3-4 3 4			3								3	
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															
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON ECON	2103 2113	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics Microeconomics	3 3			3								3	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3							3				3	
FINA	2303	Financial Management	3				3							3	
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/COMP2011
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	Substituted by COMP 1021/1022P/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	
MATH MATH MATH MATH MATH MATH	1003 1012 1013 1020 1023	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA Calculus IB Accelerated Calculus Honors Calculus I	3-4 3 4 3 4 3	(3)										0	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
		Required credits for School Requirements	43-44											34	
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					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															
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	3		3									3	
		Required credits for Additional Requirements	3											3	
University CORE															
CORE	C3 - C12	U CORE - Others	30	3	3	3	3	6	6	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	19	20	20	18	19	18	17	16		
				184##											
						<< *Declaration of BEng major*		<< *Declaration of BBA major*							

Notes:

( ) 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.