The Hong Kong University of Science and Technology
Interdisciplinary Programs Office
An Example on Student's Pathway (as of July 11, 2022)

BTGBM **2021-22 Intake**
(Via DDP PBA)

<< Declaration of BEng major   << Declaration of BBA major

School:	School of Science and School of Business Management			Student's Pathway											
Program:	**Dual Degree Program (BSc in Biotechnology 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

BSc in Biotechnology

School Requirements

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
SCIE	1000	Science School Induction	0	0	0									0	
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4												Students should take COMP1021 which will also be used to substitute ISOM 2010 and to waive ISOM 2020
COMP	1021	Introduction to Computer Science	3			3								3	
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
LANG	2010	English for Science I	3	—	—	—	—	—	—	—	—	—	—	0	Waived for DDP students
SSCI		Science Foundation courses [8 courses from the specified elective list. Students should take (i) 7 foundation lecture courses, including at least 1 lecture course, but no more than 3 lecture courses, from each of the four disciplines: CHEM, LIFS/OCES, MATH and PHYS; and (ii) 1 laboratory course.]	22-25												
CHEM	1004	Chemistry in Everyday Life	3												
CHEM	1010	General Chemistry IA	3												
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3												
CHEM	1050	Laboratory for General Chemistry I	1												
CHEM	1055	Laboratory for General Chemistry II	1												
LIFS	1901@	General Biology I @	3												LIFS1901 & LIFS1902 are Major Pre-requisite
LIFS	1902@	General Biology II @	3												
LIFS	1903	Laboratory for General Biology I	3												
LIFS	1904	Laboratory for General Biology II	1												
LIFS	1930	Nature of Life Sciences	1												
LIFS	2210	Biochemistry I	3	10	3	6	3							22	Students are recommended to take CHEM1010, CHEM1030, LIFS1903, LIFS2210 and MATH1013 to satisfy the requirements of both SSCI School requirements and Major requirements
MATH	1012	Calculus IA	3												
MATH	1013	Calculus IB	4												
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	3												
MATH	1023	Honors Calculus I	4												
MATH	1024	Honors Calculus II	3												
MATH	2023	Multivariable Calculus	3												
MATH	2121	Linear Algebra	4												
MATH	2131	Honors in Linear and Abstract Algebra I	4												
OCES	1030	Environmental Science	3												
PHY	1001	Physics and the Modern Society	3												
PHY	1111	General Physics I	3												
PHY	1112	General Physics I with Calculus	3												
PHY	1113	Laboratory for General Physics I	1												
PHY	1114	General Physics II	3												
PHY	1115	Laboratory for General Physics II	1												
PHY	1312	Honors General Physics I	3												
PHY	1314	Honors General Physics II	3												
		Required credits for School / Major Pre-requisite Requirements	**25-29**											**25**	

Major Requirements

Major Required Courses and Electives

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
LIFS	1903	Laboratory for General Biology I	1	(1)										0	
LIFS	1904	Laboratory for General Biology II	1		1									1	
LIFS	2040	Cell Biology	3				3							3	
LIFS	2070	Introduction to Biotechnology	3			3								3	
LIFS	2080	Plant Biology	3				3							3	
LIFS	2210	Biochemistry I	3			(3)								0	
LIFS	3060	Microbiology	3						3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3					3						3	
LIFS	3140	General Genetics	4							4				4	
LIFS	4150	Plant Biotechnology	3									3		3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology	3							3				3	
		Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983) [Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]	3-7												
LIFS	4963	Biotechnology Capstone Project	3									[3]	3	3	
LIFS	4973	Biotechnology Project Research I	3												
LIFS	4983	Biotechnology Project Research II	4												
SCIE	4500	IRE Research Project II	3												
		Note: CHEM1010 OR CHEM1020													
CHEM	1010	General Chemistry IA	3	(3)										0	
CHEM	1020	General Chemistry IB	3												
CHEM	1030	General Chemistry II	3		(3)									0	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
CHEM	1055	Laboratory for General Chemistry II	1		1									1	
		Note: CHEM 2110 OR CHEM 2311													
CHEM	2110	Organic Chemistry I	3					3						3	
CHEM	2311	Analytical Chemistry	3												
		Note: CHEM2155 OR CHEM2355													
CHEM	2155	Fundamental Organic Chemistry Laboratory	1							1				1	
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1												
CENG	1600	Biotechnology and Its Business Opportunities	3							3				3	
LANG	3024	Science Communication in English (Life Science)	3										3	3	
LIFS/ BIPH/ BTEC/ OCES/ PHYS/ BIEN/ CENG		Biotechnology Electives (Courses from the specified elective list; Students following IRE Track are required to take a minimum of 15 credits; while others a minimum of 18 credits. Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)	15-18							6	6	3		15	
		Required credits for Major Required Courses and Electives	**62-70**											**56**	

BBA in General Business Management

School Requirements

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	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	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	Substituted by COMP 1021/ 1022P/ 2011
ISOM	2020	Coding for Business	1	—	—	—	—	—	—	—	—	—	—	0	Waived for DDP students if they have taken and passed COMP1021 or COMP 1029P
ISOM	2500	Business Statistics	3		3									3	
ISOM	2600	Introduction to Business Analytics	1				1							1	
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 2110 is a major pre-requisite
MGMT	2130	Business Ethics and Social Responsibility	2									2		2	
SBMT	1111	Business Student Induction	0	—	—	—	—	—	—	—	—	—	—	0	Waived for DDP students
LABU	2040	Business Case Analyses	0	—	—	—	—	—	—	—	—	—	—	0	Waived for DDP students
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												
MATH	1003	Calculus and Linear Algebra	3												DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA degrees
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**											**35**	

Major Requirements

Major Required Courses and Electives

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	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	7	7	3	3	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	Remarks
TEMG	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	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**											**7**	

University CORE

Dept	Code	Title	Credits	Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S	Sub	Remarks
CORE	C3 - C12	U CORE - Others	30	3	3				6	3	6	3	6	30	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
		Sub-total for University CORE	**36**											**36**	

				Y1F	Y1S	Y2F	Y2S	Y3F	Y3S	Y4F	Y4S	Y5F	Y5S		
				17	19	18	19	19	19	20	19	18	20	188##	

<< Declaration of BEng major   << Declaration of BBA major

Notes:
@ Course that students need to complete before enrolling into respective major/programs.
( ) indicates the reuse of the same course to fulfill more than one requirement.
[ ] denotes the course is also offered in other terms as indicated and students may take the course in one of these subject to advice by the program office.
--- denotes the course/requirement is either waived or substituted
To graduate, students should complete all requirements as specified for DDP.

Remarks on course(s):