The Hong Kong University of Science and Technology
Interdisciplinary Programs Office
An Example on Student's Pathway (as of July 22, 2022)

BEGBM   2022-23 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	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

<< Declaration of BEng major — between Year 2 Fall / Year 2 Spring; *<< Declaration of BBA major* — between Year 2 Spring / Year 3 Fall.

BEng in Bioengineering

Major Requirements

Engineering Fundamental Courses

Dept	Code	Course Title	Credits	Y1F	Y1Sp	Y2F	Y2Sp	Y3F	Y3Sp	Y4F	Y4Sp	Y5F	Y5Sp	Sub-total	Remarks
COMP		Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P]	3-5												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	1029P	Python Programming Bridging Course	1												
COMP	2011	Programming with C++	4												
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
CHEM	1020	General Chemistry I	3	3										3	
CHEM	1050	Laboratory for General Chemistry I	1	1										1	
LANG	2030	Technical Communication I	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students
LIFS	1901	General Biology I	3	3										3	
MATH		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												
MATH	1013	Calculus IB	3	3	3									6	
MATH	1014	Calculus II	3												
MATH	1020	Accelerated Calculus	4												
MATH	1023	Honors Calculus I	3												
MATH	1024	Honors Calculus II	3												
PHYS		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											19	

Major Required Courses and Electives

Dept	Code	Course Title	Credits	Y1F	Y1Sp	Y2F	Y2Sp	Y3F	Y3Sp	Y4F	Y4Sp	Y5F	Y5Sp	Sub-total	Remarks
BIEN	1010	Note: BIEN 1010 OR CENG 1000 / 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	3310	Note: BIEN 3310 OR BIEN 3320 / Data Science for Neural Engineering	3				3							3	
BIEN	3320	Data Science for Biology and Medicine	3												
BIEN	3410	Introduction to Bioinstrumentation and Bioimaging	3							3				3	
BIEN	3910	Bioengineering Laboratory	4							4				4	
BIEN	4920	Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940 / 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	2220	Transport Phenomena I	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	3150	Note: LIFS 3150 OR MATH 2411 OR BIEN 3300 / Biostatistics	3-4 / 3			3								3	
MATH	2411	Applied Statistics	4												
BIEN	3300	Data Science for Molecular Engineering	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

Dept	Code	Course Title	Credits	Y1F	Y1Sp	Y2F	Y2Sp	Y3F	Y3Sp	Y4F	Y4Sp	Y5F	Y5Sp	Sub-total	Remarks
ACCT	2010	Principles of Accounting I	3			3								3	
ACCT	2200	Principles of Accounting II	3						3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 / Principles of Microeconomics	3			3								3	ECON 2103 / 2113 / 2123 is a major pre-requisite
ECON	2113	Microeconomics	3												
ECON	2123	Note: ECON 2123 OR ECON 3123 / 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/2011/2012H
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	-	-	-	-	-	-	-	-	-	-	0	Substituted by LIFS 3150/MATH 2411/BIEN 3300
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	
LABU	2040	Business Case Analyses	3	-	-	-	-	-	-	-	-	-	-	0	Waived for DDP students
LABU	2060	Effective Communication in Business	3						3					3	
MATH		Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc 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											31	

Major Requirements

Major Required Courses and Electives

Dept	Code	Course Title	Credits	Y1F	Y1Sp	Y2F	Y2Sp	Y3F	Y3Sp	Y4F	Y4Sp	Y5F	Y5Sp	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					3	3	4	6	7	6	29	
		Required credits for Major Required Courses and Electives	29											29	

Additional Requirements

Requirements for Dual Degree Program

Required Courses

Dept	Code	Course Title	Credits	Y1F	Y1Sp	Y2F	Y2Sp	Y3F	Y3Sp	Y4F	Y4Sp	Y5F	Y5Sp	Sub-total	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	Course Title	Credits	Y1F	Y1Sp	Y2F	Y2Sp	Y3F	Y3Sp	Y4F	Y4Sp	Y5F	Y5Sp	Sub-total	Remarks
CORE	C3 - C9	U CORE - Others	21				3	6	6		6			21	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
CORE	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	0	3									3	
		Sub-total for University CORE	36											30	

Term load (excl. free credits)												
16	18	18	18	18	18	17	18	19	16			**176##**

<< 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.