The Hong Kong University of Science and Technology
Academy of Interdisciplinary Studies
An Example on Student's Pathway (as of April 1, 2025)

BEFINA (Via DDP PBA) **2025-26 Intake**

School:	School of Engineering and School of Business Management
Program:	Dual Degree Program (BEng in Bioengineering and BBA in Finance)

Course Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	Student's Pathway: 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							
													<< Declaration of BBA major		
BEng in Bioengineering															
Engineering Fundamental Courses															
COMP COMP COMP COMP	1022P 1023 2011 2012H	Note: COMP 1022P OR COMP 1023 OR COMP 2011 OR COMP 2012H Introduction to Computing with Java Introduction to Python Programming Programming with C++ Honors Object-Oriented Programming and Data Structures	3-5 3 3 4 5		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
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 1x Biology are exempted from taking LIFS 1901
MATH MATH MATH	1013 1020 1023	Note: MATH 1013 OR MATH 1020 OR MATH 1023 Calculus I Accelerated Calculus Honors Calculus I	3-4 4 3 4	3										3	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
PHYS PHYS	1112 1312	Note: PHYS 1112 OR PHYS 1312 General Physics I with Calculus Honors General Physics I	3 3 3		3									3	
		Required Credits for Engineering Fundamental Courses	16-19	9	7	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 cousre 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	
BIEN BIEN	3310 3320	Note: BIEN 3310 OR BIEN 3320 Data Science for Neural Engineering Data Science for Biology and Medicine	3 3 3					[3]	3					3	BIEN 3310/3320 which will also be used to substitute ISOM 2600
BIEN	3410	Introduction to Bioinstrumentation and Bioimaging	3					3						3	
BIEN	3420	Biosensors and Bioinstrumentation for Healthcare	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 6									3	3	6	
CENG	1000	Foundations of Chemical and Biological Engineering	3	3										3	Those entering the Bioengineering in Year 2 will take this cousre in Year 2 Fall.
CENG	1010	Academic and Professional Development I	0	0										0	Those entering the Bioengineering in Year 2 will take this cousre 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					0	
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 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 Finance															
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								3	
ECON ECON	2123 3123	Note: ECON 2123 OR ECON 3123 Macroeconomics Macroeconomic Theory I	3 3 3							3				3	
FINA	2303	Financial Management	3				3							3	FINA 2303 is a major pre-requisite
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	-	-	-	-	-	-	0	COMP 1023, COMP 1022P, COMP 2011 and COMP 2012H are more advanced computing courses as compared to ISOM 2010. Students SHOULD take COMP1023 or COMP2011 or COMP2012H instead of ISOM 2010.
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	ISOM 2020 is waived for DDP students who have taken and passed COMP 1023, COMP 1022P, 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									3	
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	
MATH MATH MATH MATH	1003 1013 1020 1023	Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus I Accelerated Calculus Honors Calculus I	3-4 3 3 4 3	(3)										0	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	9	3	3	3	2	0	2	31	
Major Required Courses and Electives															
FINA	3001	Key Skills for Finance Professionals (A)	1					1						1	
FINA	3103	Intermediate Investments	3					3						3	
FINA	3203	Derivative Securities	3						3					3	
FINA	3303	Intermediate Corporate Finance	3							3				3	
FINA	3810	Bloomberg Market Concepts Certification	0					0						0	
ACCT ACCT ACCT	3010 3020 3030	Note: (ACCT 3010 AND ACCT 3020) OR ACCT 3030 Financial Accounting I Financial Accounting II Intermediate Financial Accounting for Non-Accounting Majors	3-6 3 3 3							3				3	
ISOM ISOM	3230 3400	Note: ISOM 3230 OR ISOM 3400 Business Programming in VBA Business Applications Development in Python	3 3 3						3					3	If DDP students took COMP 1023 in BEng requirement, they are required to enroll ISOM 3230
FINA		FINA 3000-level or above Electives (Any 3 courses of the subject and level as specified)	9								3	3	3	9	
		Required Credits for Major Required Courses and Electives	25-28	0	0	0	0	4	6	6	3	3	3	25	
Additional Requirement for Dual Degree															
Requirements for Dual Degree Program															
TEMG	1011	T&M Professional Activities I	0	0	0									0	
TEMG	1012	T&M Professional Activities II	0			0	0							0	
TEMG	1013	T&M Professional Activities III	0					0	0					0	
TEMG	1014	T&M Professional Activities IV	0							0	0			0	To graduate, students should complete **ALL** requirements as specified for DDP.
TEMG	1015	T&M Professional Activities V	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	0	3	0	0	0	0	4	0	0	0	7	
University Common Core Requirements															
CORE	C3 - C9	U CORE - Others	21			6					9	6		21	
CORE	C1 & C2	U CORE - English Language	6	3	3									6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2									3	
		Sub-total for University CORE	30	4	5	6	0	0	0	0	9	6	0	30	
									Term load (excl. free credits)						
				19	21	18	18	17	15	16	17	15	14	**170**	
								170##							

Notes:
( ) indicates the reuse of the same course to fulfill more than one requirement.
* Courses offered in winter term
^ Courses offered in summer term
---- denotes the course/requirement is either waived or substituted
To graduate, students should complete all requirements as 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.