The Hong Kong University of Science and Technology
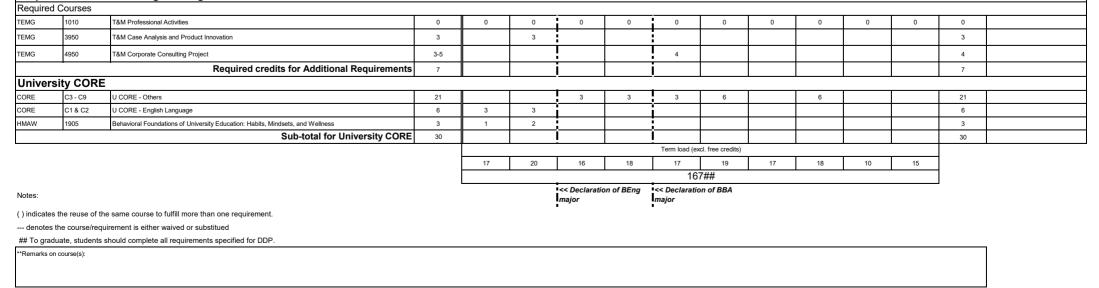## Academy of Interdisciplinary Studies
An Example on Student's Pathway (as of August 8, 2024)

BEECON (Via DDP PBA)   2024-25 Intake

<< Declaration of BEng major (above Year 2 Fall)   *<< Declaration of BBA major* (above Year 3 Fall)

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

Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Y1 Fall	Y1 Spring	Y2 Fall	Y2 Spring	Y3 Fall	Y3 Spring	Y4 Fall	Y4 Spring	Y5 Fall	Y5 Spring	Sub-total	Remarks
BEng in Bioengineering															
Major Requirements															
Engineering Fundamental Courses															
		Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011 OR COMP 2012H) AND COMP1029P]	3-6												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	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	
		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												
		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	20-27											19	
Major Required Courses and Electives															
		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	3300	Data Science for Molecular Engineering	3					3						3	
		Note: BIEN 3310 OR BIEN 3320													
BIEN	3310	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	
		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	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	
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						3		6		6	15	
		Required credits for Major Required Courses and Electives	57											57	
BBA in Economics															
School Requirements															
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 / 2113 / 2123 is a major pre-requisite
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/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		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	
		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	39-40											31	
Major Requirements															
Major Required Courses and Electives															
ECON	3014	Managerial Microeconomics	4					4						4	
ECON	3024	Managerial Macroeconomics	4						4					4	
ECON	3334	Introduction to Econometrics	4							4				4	
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11							4	4		3	11	
		Required credits for Major Required Courses and Electives	23											23	
Additional Requirements															
Requirements for Dual Degree Program															
Required Courses															
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															
CORE	C3 - C9	U CORE - Others	21			3	3	3	6		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											30	
		Term load (excl. free credits)		17	20	16	18	17	19	17	18	10	15		
								167##							

<< Declaration of BEng major (above Year 2 Fall)   *<< Declaration of BBA major* (above Year 3 Fall)

Notes:

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

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

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.