The Hong Kong University of Science and Technology Academy of Interdisciplinary Studies An Example on Student's Pathway

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BEECON 2025-26 Intake (Via DDP PBA)

		An Example o	n Student's	Pathway											
				<< Declaration	on of BEna			<< Declarat	ion of BBA						
					<< Declaration of BEng										
School:		School of Engineering and School of Business Management		Student's Pathway											
Program:		Dual Degree Program (BEng in Bioengineering and BBA in Economics)										Stude	ents ratilway		
Course Offering			c	Yes	ø ≺	Yes	so -c	Yes	ω ≺	Yes	s ×	Yes	ω ≺	Su	Remarks
Dept. (course	Course Code	Course Title / Courses List	Credits	ır 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	r 5 Fa	Year 5 Spring	Sub-total	Kemarks
code prefix)		<u> </u>		=		=		=		=		all		_	
		gineering													
Engineer	ing Funda	note: COMP 1022P OR COMP 1023 OR COMP 2011 OR COMP 2012H	3-5	11			I	1			1		l	ı	1
COMP	1022P	Introduction to Computing with Java	3												Students should take COMP 1022P, COMP 1023, COMP 2011 or COMP 2012H which will also be used to substitute ISOM
COMP	1023 2011	Introduction to Python Programming Programming with C++	3		3									3	2010 and to waive ISOM 2020
COMP	2012H	Honors Object-Oriented Programming and Data Structures	5												
CHEM	1012 1052	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories Laboratory for General Chemistry B	1	3	1			1						3	
LIFS	1901	General Biology I	3	3	'			1						3	Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901
		Note: MATH 1013 OR MATH 1020 OR MATH 1023	3-4												
MATH	1013	Calculus I	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
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	3 4												
		Note: PHYS 1112 OR PHYS 1312	3												
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3		3									3	
		Required Credits for Engineering Fundamental Courses	16-19	9	7	0	0	0	0	0	0	0	0	16	
Major Re	equired Co	purses and Electives						,							
BIEN	1600	Introduction to Bioengineering	3		3				1					3	Those entering the Bioengineering in Year 2 will take this cousre in Year 2 Spring.
BIEN	2410 2610	Cellular and Systems Physiology for Engineers Chemical Biology for Engineers	3	 		3	3		-	-				3	
BIEN	3250	Rate and Transport Processes in Biological Systems	3			l ,		3	1	1				3	<u> </u>
BIEN	3300	Data Science for Molecular Engineering	3			3								3	
		Note: BIEN 3310 OR BIEN 3320	3												
BIEN	3310	Data Science for Neural Engineering	3					[3]	3					3	BIEN 3310/3320 which will also be used to substitute ISOM 2600
BIEN	3320 3410	Data Science for Biology and Medicine Introduction to Bioinstrumentation and Bioimaging	3			1		3	+	-				3	
BIEN	3410	Biosensors and Bioinstrumentation for Healthcare	3			1		,	3	1				3	†
BIEN	3910	Bioengineering Laboratory	4					4						4	
		Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940	6												
BIEN BIEN	4920 4930	Bioengineering Capstone Design Bioengineering Thesis Research	6									3	3	6	
BIEN	4940	Bioengineering Industrial Project	6												
CENG	1000	Foundations of Chemical and Biological Engineering Academic and Professional Development I	0	0										3	Those entering the Bioengineering in Year 2 will take this cousre in Year 2 Fall. Those entering the Bioengineering in Year 2 will take this cousre in Year 2 Fall.
CENG	2210	Academic and Professional Development I Chemical and Biological Engineering Thermodynamics	3	0			3	-	+					3	Those entering the Bioengineering in Year 2 will take this couste in Year 2 Fall.
CENG	2310	Modeling for Chemical and Biological Engineering I	3			3		1						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		Bloengineering 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	Econor	nics													
	Requireme														_
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3	3				1	3					3	
		Note: ECON 2103 OR ECON 2113	3												
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics	3			3								3	
ECON	2113	Note: ECON 2123 OR ECON 3123	3												ECON 2103 / 2113 / 2123 is a major pre-requisite
ECON	2123	Macroeconomics	3							3				3	
ECON	3123	Macroeconomic Theory I	3												
FINA	2303	Financial Management	3				3							3	COMP 1023, COMP 2011 and COMP 2012H are more advanced computing courses as
ISOM	2010	Introduction to Information Systems	3	-	•		-		-	-	-	-	-	0	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 2011 and COMP 2012H. These two COMP courses are similar or more advanced coding (Python) courses as ISOM 2020.
ISOM ISOM	2500 2600	Business Statistics Introduction to Business Analytics	3	<u> </u>	3		-		<u> </u>		_		_	3	Substituted by BIEN 3310/3320
ISOM	2700	Operations Management	3					3						3	
MARK	2120	Marketing Management	3				3				_			3	
MGMT MGMT	2010 2110	Business Ethics and the Individual Organizational Behavior	3		<u> </u>		3		L		2			3	<u> </u>
MGMT	2130	Business Ethics and Social Responsibility	2										2	2	
		Note: MATH 1003 OR MATH 1013 OR MATH 1020 OR MATH 1023	3-4												
MATH MATH	1003 1013	Calculus and Linear Algebra Calculus IB	3	[3]										0	DDP students should take MATH 1013 or MATH 1020 or MATH 1023 to satisfy the requirements of both BEng and BBA degrees
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	4 3												
		Required Credits for School Requirements	39-40	3	3	3	3	3	3	3	2	0	2	31	
		ourses and Electives													
ECON ECON	3014 3024	Managerial Microeconomics Managerial Macroeconomics	4				1	4	4	-				4	
ECON	3334	Managerial Macroeconomics Introduction to Econometrics	4			 		1	 	4				4	†
ECON		ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11			<u></u>		<u> </u>		<u> </u>	4	4	3	11	
		Required Credits for Major Required Courses and Electives	23	0	0	0	0	4	4	4	4	4	3	23	
		uirement for Dual Degree													
Requiren	nents for I	Dual Degree Program T&M Professional Activities I	0	0	0	I		4	1	I	ı		I	0	T
TEMG	1011	T&M Professional Activities II	0	- 0	v	0	0		1	1				0	1
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 TEMG	1015 3950	T&M Professional Activities V T&M Case Analysis and Product Innovation	3		3	1		 	1	 		0	0	3	-
TEMG	4950	T&M Corporate Consulting Project	3-5					<u>i</u>	4				<u> </u>	4	<u>† </u>
	•	Required Credits for Additional Requirements		0	3	0	0	0	4	0	0	0	0	7	
		on Core Requirement													
CORE	C3 - C9 C1 & C2	U CORE - Others U CORE - English Language	21 6	3	3	3		 	1	6	6	6		21 6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2	1		!	1					3	
		Sub-total for University CORE		·										_	

**Remarks on course(s):

Sub-total for University CORE

tes the reuse of the same course to fulfill more than one requirement.

Courses offered in summer term

--- denotes fored in summer term

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

To graduate, students should complete all requirements as specified for DDP.

>> 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.