The Hong Kong University of Science and Technology Academy of Interdisciplinary Studies

An Example on Student's Pathway (as of August 8, 2024)

<< Declaration of
BEng major</pre>
<< Declaration of
BBA major</pre>

BTECON 2024-25 Intake (Via DDP PBA)

School:		School of Science and School of Business Management		BEng major Student's Pathway											
Program:		Dual Degree Program (BSc in Biotechnology and BBA in Economics)									,				
						1	4	<u> </u>	- 1		4				+
Course	Outro Outr	C Till. (C) i.e.	Cre	Year 1	Year 1	Year 2	Year 2	Year	Year 3 Spring	Year	/ear 4	Year 5	Year 5 Spring	Sub	Remarks
Offering Dept. (course code prefix)	Course Code	Course Title / Courses List	Credits	1 Fall	· 1 Spring	2 Fall	Spring	Year 3 Fall	3 Sprii	Year 4 Fall	· 4 Sprin	5 Fall	Sprii	Sub-total	
DO 1 D1 1	<u> </u>			=	ng	i	ng		ng	=	ng	=	ng		
BSc in Biot School Requi															
		Note: COMP1021 OR COMP1022P OR COMP2011	3-4			Ī									Students should take COMP1021
COMP COMP COMP	1021 1022P 2011	Introduction to Computer Science Introduction to Computing with Java Programming with C++	3			3		! !						3	which will also be used to substitute ISOM 2010 and to waive ISOM 2020
	2011	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	4			i		<u>. </u>							2020
SSCI		3 lecture courses, from each of the four disciplines: CHEM, LIFS/OCES, MATH and PHYS; and (ii) 1 laboratory course.]	22-26			i		i I							
CHEM CHEM	1008 1011	Introductory Chemistry General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3			į		į							
CHEM CHEM	1012 1051	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories Laboratory for General Chemistry A	3			į		į							
CHEM	1052	Laboratory for General Chemistry B	1			ļ.		<u> </u>							
DASC LIFS	2010 1030**	Calculus for Data Analytics in Science Environmental Science	3] :							
LIFS LIFS	1901@ 1902@	General Biology I @ General Biology II @	3			ŧ		:							LIFS1901 & LIFS1902 are Major
LIFS LIFS LIFS	1903 1904 1930	Laboratory for General Biology I Laboratory for General Biology II Nature of Life Sciences	3 1 1			i		i							Pre-requisite
LIFS MATH	2210 1012	Biochemistry I Calculus IA	3	10	3	6	3	į						22	Students are recommended to take CHEM1011, CHEM1012, LIFS1903,
MATH MATH	1013 1014	Calculus IB Calculus II	4			į		į							LIFS2210 and MATH1013 to satisfy the requirements of both SSCI
MATH MATH	1020 1023	Accelerated Calculus Honors Calculus I	3			ļ.		!							School requirements and Major requirements
MATH MATH	1024 2023	Honors Calculus II Multivariable Calculus	3] :							
MATH MATH OCES	2121 2131 1001	Linear Algebra Honors in Linear and Abstract Algebra I The Earth as a Blue Planet	4 4 3			i		:							
OCES PHYS	1010 1101	Principles and Applications of Environmental Science Introductory Physics	3 4			i		: 							
PHYS PHYS	1111 1112	General Physics I General Physics I with Calculus	3			į		i							
PHYS PHYS	1113 1114	Laboratory for General Physics I General Physics II	1			į		į							
PHYS PHYS	1115 1312	Laboratory for General Physics II Honors General Physics I	3			ļ		! :							
PHYS		Honors General Physics II lequired credits for School / Major Pre-requisite Requirements	3 25-29			!								25	<u> </u>
Major Requirements Major Required Courses and Electives															
Major Required C	Courses and Electiv	Laboratory for General Biology I	1	(1)		i		i						0	
LIFS	1904	Laboratory for General Biology II	1	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	ì		:						1	
LIFS LIFS	2040 2070	Cell Biology Introduction to Biotechnology	3			3	3	<u>. </u>						3	+
LIFS	2080	Plant Biology	3				3	<u> </u>						3	
LIFS LIFS	2210 2220	Biochemistry I Biochemistry II	3			(3)		<u> </u>	3					3	
LIFS	3150	Biostatistics Note: LIFS4963 OR (LIFS4973 AND LIFS4983) OR (SCIE4500 AND LIFS4983)	3			!		3						3	
		[Students following IRE Track can only use (SCIE4500 AND LIFS4983) to fulfill the requirement.]	3-7			ŀ		!							
LIFS LIFS	4963	Biotechnology Capstone Project	3			i		i				[3]	3	3	
LIFS	4973 4983	Biotechnology Project Research I Biotechnology Project Research II	4			i		i							
SCIE CHEM	4500 1011	IRE Research Project II General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3	(3)		! 		<u>. </u>						0	
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3		(3)	<u> </u>		<u> </u>						0	
CHEM	1051 1052	Laboratory for General Chemistry A Laboratory for General Chemistry B	1	1	1	!								1	
CHEM	2111	Note: CHEM 2111 OR CHEM 2311 Fundamentals of Organic Chemistry	3			!		3						3	
CHEM	2311	Analytical Chemistry Note: CHEM2155 OR CHEM2355□	3			!		<u> </u>							
CHEM CHEM	2155 2355	Fundamental Organic Chemistry Laboratory Fundamental Analytical Chemistry Laboratory Plottephalogy Floribuse (Course from the accepted elective list. Students following IRE	1			<u> </u>		<u> </u>	1					1	
LIFS/ BIPH/ BTEC/ OCES/		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	15-18			į		i	3		3	6	3	15	
PHYS/ BIEN/ CENG Applied Bioscience	ce Track/ Entrepren	elective requirement.)				i		<u> </u>							
LIFS/ CENG/ SCIE		Students should follow one of the tracks and complete all requirements as specified:	18-19			!		3	4	3	3	3	3	19	Please refer to the curriculum of BIOT for details of the requirements
		Applied Bioscience Track OR Entrepreneurship Track Required credits for Major Required Courses and Electives				<u> </u>		<u> </u>	· ·					59	of each track.
BBA in Eco	nomics		00.10	11											1
School Requi	irements														
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3	3		i		-	3					3	
ECON	2103	Note: ECON 2103 OR ECON 2113 Principles of Microeconomics	3			İ	3	<u> </u>						3	
ECON	2113	Microeconomics Note: ECON 2123 OR ECON 3123	3			<u> </u>		<u> </u>							ECON 2103 / 2113 / 2123 is a major pre-requisite
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3			ļ		3						3	
FINA	2303	Financial Management	3			3		!						3	Substituted by COMP 1021/ 1022P/
ISOM	2010	Introduction to Information Systems	3											0	2011 Waived for DDP students if they
ISOM	2020	Coding for Business	1			<u>i </u>		<u> </u>						0	have taken and passed COMP1021 or COMP 1029P
ISOM	2500 2600	Business Statistics Introduction to Business Analytics	3	1	3	Í -		!			1			3	+
ISOM	2700	Operations Management	3			!	_	:		3				3	
MARK MGMT	2120 2010	Marketing Management Business Ethics and the Individual	2	1	2	<u>!</u>	3	<u> </u>		\vdash				3	<u> </u>
MGMT	2110	Organizational Behavior	3			3		:						3	
MGMT	2130	Business Ethics and Social Responsibility Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Catalylas and Library All Library 1000 OR MATH 10	3-4	1		<u>:</u> I		<u>: </u>		<u> </u>			2	2	DDD etc.time of the control
MATH MATH MATH	1003 1012 1013	Calculus and Linear Algebra Calculus IA Calculus IB	3 4 3	(3)		į		į						0	DDP students should take MATH 1013 OR MATH 1023 to satisfy the requirements of both BSc and BBA
MATH MATH MATH	1013 1020 1023	Calculus IB Accelerated Calculus Honors Calculus I	3 4 3			į		į							requirements of both BSc and BBA degrees
		Required credits for School Requirements	39-40	1		j								32	
Major Required C	ements Courses and Elective	es													
ECON ECON	3014 Electiv	Managerial Microeconomics	4			<u> </u>		4	<u></u>	<u></u>				4	
ECON	3024	Managerial Macroeconomics	4			i			4					4	
ECON ECON	3334	Introduction to Econometrics ECON 4000-level Electives (Any 3 courses of the subject and level as specified)	11	1		: 		i		4	4	4	3	4 11	
		Required credits for Major Required Courses and Electives				!								23	
	Requirement														
Requirements Required Courses	s for Dual Deg r s	ree Program													
TEMG	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
TEMG	3950 4950	T&M Care Analysis and Product Innovation	3	<u> </u>	3	 		 	<u> </u>	<u> </u>				3	
TEMG	4900	T&M Corporate Consulting Project Required credits for Additional Requirements	3-5	-		i		4						7	+
University CO								·							·
CORE	C3 - C9 C1 & C2	U CORE - Others U CORE - English Language	21 6	3	3	<u> </u>	3	 	 	9	6	3		21 6	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2	<u> </u>		!						3	
		Sub-total for University CORE	30	1	1	<u> </u>		<u> </u>	<u> </u>	<u>I</u>		İ	İ	30	1
				18	18	18	18	20	18	19	17	16	14		
						<< Declar	ation of	17 << Declar	ation of						
Notes:						SEng maj		<< Declar BBA majo							
@ Course that stude	ents need to complete b	pefore enrolling into respective major/programs.													

 $@\ \ \text{Course that students need to complete before enrolling into respective major/programs}.$ () 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):