## The Hong Kong University of Science and Technology

Academy of Interdisciplinary Studies

An Example on Student's Pathway (as of August 3, 2023)

		An Example on Stu	uents Fath	iway (as of /	August 3, 20	<< Declarati	on of BEng	<< Declarati	on of BBA						
School:		School of Engineering and School of Business Management		1		major		major	:	Student's Pathv	vay				
Program:		Dual Degree Program (BEng in Bioengineering and BBA in Economics)									,				
						<u>,</u>		:							-
Course Offering	Course Cords	Course Title / Courses List	Ore	Year	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year	Year 3 Spring	Year 4 Fall	Year 4 Spring	Year 5 Fall	Year 5 Spring	Sub	Remarks
Dept□ (course code		Course Title / Courses List	Credits	1 Fall	Sprii	2 Fa	Sprii	Year 3 Fall	Sprii	4 Fa	Sprii	5 Fa	Sprii	Sub-total	
prefix)				=	Ð	=	Ð	_	Ð	-	BL	=	DL		
		ngineering													
	equireme	nts ntal Courses													
COMP	1021	Note: [COMP 1021] OR [(COMP 1022P OR COMP 2011) AND COMP1029P] Introduction to Computer Science	3-5 3			l									Students should take COMP1021
COMP	1022P 1029P	Introduction to Computing with Java Python Programming Bridging Course	3 1		3	i		1						3	which will also be used to substitute ISOM 2010 and to
COMP	2011 2012H	Programming with C++ Honors Object-Oriented Programming and Data Structures	4			i									waive ISOM 2020
CHEM	1020	General Chemistry I	3	3				: :						3	
CHEM LANG	1050 2030	Laboratory for General Chemistry I Technical Communication I	1	-	-	<u> </u>   -	-	-	-	-	-	-	-	1	Waived for DDP students
LIFS	1901	General Biology I	3	3		ļ		: 						3	
		Note: [(MATH 1012 OR MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-7			İ		ļ							
MATH MATH	1012 1013	Calculus IA Calculus IB	4 3	3	3	i		į						6	
MATH MATH	1014 1020	Calculus II Accelerated Calculus	3 4			i		ļ							
МАТН МАТН	1023 1024	Honors Calculus I Honors Calculus II Note: PHYS 1112 OR PHYS 1312	3 3			<u>.</u>		<u> </u>							
PHYS PHYS	1112 1312	General Physics I with Calculus Honors General Physics I	3 3			3		l 						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)	i		1						0	
Maior D-	uirod Com	Required credits for Engineering Fundamental Courses	23-29											19	
		Note: BIEN 1010 OR CENG 1000		1	T	Ī		I		[					
BIEN CENG	1010 1000	Introduction to Biomedical Engineering Introduction to Chemical and Biiological Engineering	3 3		3	į		; 		ļ				3	
BIEN BIEN	2310 2410	Modeling for Chemical and Biological Engineering Cellular and Systems Physiology for Engineers	3			3		i	3					3	
BIEN	2610	Chemical Biology for Engineers	3			3		i	5					3	
BIEN	2990	Academic and Professional Development I	1			1		<u>i</u>						1	
BIEN	3310	Note: BIEN 3310 OR BIEN 3320 Data Science for Neural Engineering	3			i	3	ļ						3	
BIEN BIEN	3320 3410	Data Science for Biology and Medicine Introduction to Bioinstrumentation and Bioimaging	3			1		1		3				3	
BIEN	3910	Bioengineering Laboratory Note: BIEN 4920 OR BIEN 4930 OR BIEN 4940	4			ļ		! 		4				4	
BIEN BIEN	4920 4930	Note: Bien 4920 OK Bien 4930 OK Bien 4940 Bioengineering Capstone Design Bioengineering Thesis Research	6 6			1		!				3	3	6	
BIEN	4940 4990	Bioengineering Industrial Project	6 1			İ.		<u> </u>					1	1	
CENG	2210	Academic and Professional Development II Chemical and Biological Engineering Thermodynamics	3			i	3	<u> </u>					1	3	
CENG	2220	Transport Phenomena I	3					;				3		3	
CENG	3230	Chemical and Biological Reaction Engineering	3			<u> </u>				3				3	
ENGG BIEN	2010 3300	Engineering Seminar Series Data Science for Molecular Engineering	0			0	0	0	0					0	
LANG	4035	Technical Communication II for Chemical and Biological Engineering	3			1		Ì – – – – – – – – – – – – – – – – – – –				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	15			i		ļ	3		6		6	15	
		should be at 4000-level) Required credits for Major Required Courses and Electives	60-61			i		<u> </u>						60	
	Econor														
	Requirem					v			1			1			T
ACCT ACCT	2010 2200	Principles of Accounting I Principles of Accounting II	3	3		:			3					3	
		Note: ECON 2103 OR ECON 2113						i	5						
ECON ECON	2103 2113	Principles of Microeconomics Microeconomics Note: ECON 2123 OR ECON 3123	3 3			3		i						3	ECON 2103 / 2113 / 2123 is a major pre-requisite
ECON ECON	2123 3123	Macroeconomics Macroeconomic Theory I	3 3			<u>i</u>		<u>i</u>		3				3	
FINA	2303	Financial Management	3			1	3	į						3	Cubalifying by 0040
ISOM	2010	Introduction to Information Systems	3	-	-	-	-	ļ -	-	-	-	-	-	0	Substituted by COMP 1021/1022P/2011/2012H Waived for DDP students if they
ISOM	2020	Coding for Business	1	-	-	-	-	-	-	-	-	-	-	0	have taken and passed COMP1021 or COMP 1029P
ISOM	2500	Business Statistics	3		3	ľ		1						3	CC 1321 01 CONTE 1028F
			1			i								0	Substituted by
ISOM ISOM	2600 2700	Introduction to Business Analytics Operations Management	3	-	-		-	- 3	-	-	-	-	-	0	BIEN 3310/3320
MARK	2120	Marketing Management	3				3	·						3	
MGMT	2010	Business Ethics and the Individual	2								2			2	
MGMT MGMT	2110 2130	Organizational Behavior Business Ethics and Social Responsibility	3			Į	3	i					2	3	
ECON	3700	Writing as an Economist	3			<u>î</u>		i				3		3	
LANG	2062	Professional Speaking for the Workplace Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023	3	-	-	<u>i</u> -	-		-	-	-	-	-	0	Waived for DDP students
MATH MATH	1003 1012	Note: MATH 1003 OR MATH 1012 OR MATH 1013 OR MATH 1020 OR MATH 1023 Calculus and Linear Algebra Calculus IA	3-4 3 4			i		l							DDP students should take MATH 1013 OR MATH 1023 to satisfy
MATH	1012 1013 1020	Calculus IA Calculus IB Accelerated Calculus	4 3 4	(3)				!						0	the requirements of both BSc and BBA degrees
MATH	1020	Honors Calculus I Required credits for School Requirements	4 3 43-44			<u> </u>		ļ						34	22
Major R	equireme		10-14	II	I		I		I	I	I	I	L		l
Major Req	uired Course	es and Electives		Π		8	1	•	1		1	1	1		
ECON	3014 3024	Managerial Microeconomics Managerial Macroeconomics	4			i		4	4					4	
ECON	3024	Managerial Macroeconomics	4					¦	4			<b> </b>		4	1



Notes:				<< Declaration of BEng << Declaration of BBA major major											
			173##												
				17	20	16	18	17	19	17	18	16	15		
			Term load (excl. free credits)											•	
	<b>I</b>	Sub-total for University CORE	36			<u> </u>		!						30	
HMAW	1905	Behavioral Foundations of University Education: Habits, Mindsets, and Wellness	3	1	2	<u> </u>		1						3	
CORE	C1 & C2	U CORE - English Language	6	3	3	i		i						6	
CORE	C3 - C9	U CORE - Others	21			3	3	3	6		6			21	
Univers	sity CORE			u	•									•	1
		Required credits for Additional Requirements	7					I						7	
TEMG	4950	T&M Corporate Consulting Project	3-5					4						4	
TEMG	3950	T&M Case Analysis and Product Innovation	3		3			:						3	
TEMG	1010	T&M Professional Activities	0	0	0	0	0	0	0	0	0	0	0	0	
Required	Courses														
Requir	ements fo	r Dual Degree Program													
Additi	ional Red	quirements													
		Required credits for Major Required Courses and Electives	23			ļ		i						23	
				-		*									

4

4

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

## To graduate, students should complete all requirements specified for DDP.
\*\*Remarks on course(s):

Introduction to Econometrics

ECON

3334

>> 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.

4