## The Hong Kong University of Science and Technology School of Science An Example on Student's Pathway (as of 23 July 2018)

<< Declaration of major

School:		School of Science												
Department: Program:		Division of Life Science BSc in Biotechnology			Pathway 1 Background: HKDSE 4 Core + 2 Elec (incl. 1/2x BIOL, 1/2x CHEM)									
<del>- g · ·····</del>														
					Profile: Normative									
	Io	0 Til (0 1)		ı		1			1	1				
Course Offering	Course Code	Course Title / Courses List		3				! •						
Dept				Major				!		_		_		
(course code prefix)				Pre	_ ≺	Y ea	~	Year	~	Year	~	r'ea		
			Ω	Pre-requisit	Year		ear	, 20	Year	ω ω	Year 4	4 8	dus	
			Credit	uisit	Ti a	Year 1 Spring	Year 2 Fal	2 Spring	3 Fa	Year 3 Spring	4 Fal	Year 4 Spring	Sub-tota	Remarks
School Requirements													Homano	
SCIE	1000	Science School Induction	0		0	0		:					0	
COMP		Note: COMP 1001 OR COMP 1021 OR COMP 1022P OR	3-4					l						
COMP	1001	COMP 1022Q OR COMP 2011 Exploring Multimedia and Internet Computing	3					İ						
COMP	1021	Introduction to Computer Science	3				3	i					3	
COMP COMP	1022P 1022Q	Introduction to Computing with Java Introduction to Computing with Excel VBA	3 3					! :						
COMP	2011	Introduction to Object-oriented Programming	4					ļ						
LIFS	2010	English for Science I	3					<u>ļ</u>	3				3	
		Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901	0-3	@	3			Ī					3	
LIFS LIFS	1901 1902	General Biology I General Biology II	3		<u> </u>			<del>!                                    </del>					_	
CHEM	1004	Chemistry in Everyday Life	3	@	1	3		<u> </u>					3	
CHEM	1010	General Chemistry IA	3		3			<u> </u>					3	
CHEM	1020	General Chemistry IB	3					<u> </u>					0	
CHEM	1030	General Chemistry II	3			3		<u></u>					3	
CHEM	1050	Laboratory for General Chemistry I	1		{1}			į .					0	
CHEM	1055	Laboratory for General Chemistry II	1		<b></b>	{1}		<del>-</del>					0	
LIFS LIFS	1030 1903	Environmental Science Laboratory for General Biology I	3		-	1		<u>.</u>				4	0	
LIFS	1904	Laboratory for General Biology II	1		1	{1}	-	!					0	
LIFS	1930	Nature of Life Sciences	3		1	ניו		<del>!</del>					0	
LIFS	2210	Biochemistry I	3				3						3	
MATH	1012	Calculus IA	4										0	
MATH	1013	Calculus IB	3		3								3	
MATH MATH	1014	Calculus II Accelerated Calculus	3		<b> </b>	<b> </b>		-					0	
MATH	1023	Accelerated Calculus Honors Calculus I	3		<b> </b>								0	
MATH	1024	Honors Calculus II	3										0	
MATH	2023	Multivariable Calculus	4					i					0	
MATH	2121	Linear Algebra	4					i					0	
MATH	2131	Honors in Linear and Abstract Algebra I	4					i					0	
PHYS PHYS	1001	Physics and the Modern Society	3				3	<u>.                                    </u>					3	
PHYS	1112	General Physics I General Physics I with Calculus	3					<u> </u>					0	
PHYS	1113	Laboratory for General Physics I	1					!					0	
PHYS	1114	General Physics II	3					i					0	
PHYS	1115	Laboratory for General Physics II	1					i					0	
PHYS	1312	Honors General Physics I	3					1					0	
PHYS	1314	Honors General Physics II	3					<u>!</u>					0	
Required credits for School / Major Pre-requisite Requirements											28			
Major Require	ements													
Major Required C	ourses and Electiv	/es Note: Students with level 3 or above in HKDSE 1x Biology are	0-1			ı		I	1	1				
		exempted from taking LIFS 1903			(1)			i					0	
LIFS LIFS	1903 1904	Laboratory for General Biology I Laboratory for General Biology II	1		1	1		-					1	
LIFS	2040	Cell Biology	3			'		3					3	
LIFS	2070	Introduction to Biotechnology	3				3	<u> </u>					3	
LIFS	2080	Plant Biology	3					3					3	
LIFS	2210	Biochemistry I	3				(3)	İ					0	
LIFS	3060	Microbiology  Rictophysical Application of Recombinant DNA Techniques	3		<b> </b>	ļ		3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3					i	3				3	
LIFS	3140	General Genetics	4		1	<u> </u>		!	4				4	
LIFS	4150	Plant Biotechnology	3					<u> </u>			3		3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology	3					<u>L</u>			3		3	
LIFS/SCIE		Note: LIFS 4963 OR (LIFS 4973 AND LIFS 4983) OR (SCIE 4500 AND LIFS 4983) (Students following IRE	3-7					İ						
		Track can only use (SCIE 4500 AND LIFS 4983) to fulfill the requirement.)						i						
LIFS	4963	Biotechnology Capstone Project	3					į			[3]	3	3	
LIFS LIFS	4973 4983	Biotechnology Project Research I Biotechnology Project Research II	3 4					!						
SCIE	4500	IRE Research Project II	3			<u></u>	L	<u>!</u>	<u> </u>				<u> </u>	
CHEM CHEM	1010	Note: CHEM 1010 OR CHEM 1020 General Chemistry IA	3 3		(3)			!					0	
CHEM	1020	General Chemistry IB	3		(3)	<u> </u>	<u></u>	<u>i</u>					J	
CHEM	1030	General Chemistry II	3		<b></b>	(3)		<u> </u>					0	
CHEM	1050	Laboratory for General Chemistry I  Laboratory for General Chemistry II	1		1	-		i .					1	
CHEM	.555	Note: CHEM 2110 OR CHEM 2311	3		<b> </b>	1		<u>.</u>					1	
CHEM	2110	Organic Chemistry I	3					ļ.	3	[3]			3	
CHEM CHEM	2311	Analytical Chemistry Note: CHEM 2155 OR CHEM 2355	1		1	<del> </del>	<del>                                     </del>	!	<del> </del>					
CHEM CHEM	2155 2355	Fundamental Organic Chemistry Laboratory Fundamental Analytical Chemistry Laboratory	1					Ī		1			1	
CENG	1600	Biotechnology and Its Business Opportunities	3		1	<del> </del>	3	<del>                                     </del>					3	
LANG	3024**	Science Communication in English (Life Science)	3		1	1		Ī		3	[3]		3	
LIFS/BIPH/BTEC/BIEN/B	3	Biotechnology Electives (Courses from the specified elective list; Students following IRE	15-18											
MED/CENG		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						3		6	3	3	15	
		elective requirement.)						Į.						
	1	Required credits for Major Required Courses and Electives	65-73		1	1		Ī					56	
University CO		,		Ĭ.	Ш	Ĭ.	1		1					
CORE	C3 - C12	U CORE - Others	30		3	3	3	6	3	6	3	3	30	
CORE	C1 & C2	U CORE - English Language	6		3	3	Ĺ	-					6	
		Sub-total for University CORE	36										36	
								erm load (ex						
					17	14	18	18	16	16	12	9	ļ	
Natas					<u> </u>				20#	of mai			l	
Notes:								<< Dec	ıaration	υι majoi	1			

 $\ensuremath{@}$  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 terms subject to advice by the program office.
- { } indicates the course overlapping with another requirement will not be necessarily counted towards the School Requirements.
- # To graduate, students should complete at least 120 credits in approved courses. They may need to take courses additional to the required and elective courses as specified above to meet this minimum credit requirement.

\*\*Remarks on course(s):

- LANG 3024: This is a new course to take effect in Fall, 2019-20.

<sup>&</sup>gt;> 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.