The Hong Kong University of Science and Technology School of Science

An Example on Student's Pathway (as of 25 July 2023)

<< Declaration of major

School: Department:		School of Science Division of Life Science												
Program:		BSc in Biotechnology			Pathway 1 Background: HKDSE 4 Core + 2 Elec (incl. 1/2x BIOL, 1/2x CHEM)									
					Profile: Normative									
						Prolie: Normative								
Course	Course Code	Course Title / Courses List]						
Offering Dept				Majo				ļ						
(course code				Major Pre-requisite		Yea		, e _ε		Yea		Yea		
prefix)			0	e-rec	/ear	ır 1 9	/ear	ar 2 (/ear	ır 3 (/ear	ır 4 S	Sub	
			Credits	isiu	Year 1 Fa	Year 1 Spring	Year 2 Fa	Year 2 Spring	Year 3 Fal	Year 3 Spring	Year 4 Fa	Year 4 Spring	Sub-total	Remarks
School Req	uirements	<u> </u>	Ś	ē	. =	Ø	=	Ō	_ ≝	Ū	=	Ū	<u> </u>	nemarks
COMP		Note: COMP 1021 OR COMP 1022P OR COMP 2011	3-4					i						
COMP COMP	1021 1022P	Introduction to Computer Science Introduction to Computing with Java	3				3						3	
COMP	2011	Programming with C++	4					<u>!</u>						
LANG LIFS	2010	English for Science I Note: Students with level 3 or above in HKDSE 1x Biology are	3 0-3					<u> </u>	3				3	
		exempted from taking LIFS 1901		@	3			ļ					3	
LIFS LIFS	1901	General Biology I General Biology II	3	@	1	3		<u> </u>					3	
CHEM	1008	Introductory Chemistry	3	9	1	3		<u> </u>					0	
СНЕМ	1020	General Chemistry I	3		3			<u>. </u>					3	
CHEM	1030	General Chemistry II	3			3							3	
CHEM	1050	Laboratory for General Chemistry I	1		{1}			:					0	
CHEM	1055	Laboratory for General Chemistry II Environmental Science	3		1	{1}		<u> </u>					0	
LIFS	1903	Laboratory for General Biology I	1	+	1	-		 		-			1	
LIFS	1904	Laboratory for General Biology II	1			{1}		<u>. </u>					0	
LIFS	1930	Nature of Life Sciences	3										0	_
LIFS	2210	Biochemistry I	3	1	<u> </u>		3	<u> </u>					3	
MATH MATH	1012	Calculus IA Calculus IB	3	1	3			i					0	
MATH	1013	Calculus II	3	+	3			<u>. </u>					0	
MATH	1020	Accelerated Calculus	4	<u> </u>	1								0	
MATH	1023	Honors Calculus I	3										0	
MATH	1024	Honors Calculus II	3										0	
MATH MATH	2023	Multivariable Calculus Linear Algebra	4										0	
MATH	2131	Honors in Linear and Abstract Algebra I	4		1			i					0	
OCES	1010	Principles and Applications of Environmental Science	3											
DUNG.								<u>i </u>					0	
PHYS PHYS	1101	Introductory Physics General Physics I	3				4						4	
PHYS	1112	General Physics I With Calculus	3	_									0	
PHYS	1113	Laboratory for General Physics I	1					<u> </u>					0	
PHYS	1114	General Physics II	3					 					0	
PHYS	1115	Laboratory for General Physics II	1										0	
PHYS PHYS	1312	Honors General Physics I Honors General Physics II	3										0	
FH13		edits for School / Major Pre-requisite Requirements	3										0 29	
Major Regu		edits for School / Major Fre-requisite nequirements			1			i					29	
Major Requirements Major Required Courses and Electives														
LIFS		Note: Students with level 3 or above in HKDSE 1x Biology are	0-1					<u> </u>						
LIFS	1903	exempted from taking LIFS 1903 Laboratory for General Biology I	1		(1)	ŀ							0	
LIFS	1904	Laboratory for General Biology II	1			1		<u> </u>					1	
LIFS	2040	Cell Biology	3					3					3	
LIFS	2070	Introduction to Biotechnology Plant Biology	3		-		3	i					3	
LIFS	2210	Biochemistry I	3		-		(3)	3					3	
LIFS	3060	Microbiology	3				(3)	3					3	
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3						3				3	
LIFS	3140	Constal Constine	4		-			! !						
LIFS	4150	General Genetics Plant Biotechnology	3		-			<u> </u>	4		3		3	
LIFS	4200	Concepts and Issues in Contemporary Biotechnology	3		-						3		3	
LIFS/SCIE	-	Note: LIFS 4963 OR (LIFS 4973 AND LIFS 4983) OR	3-7		1			<u> </u>			-			
		(SCIE 4500 AND LIFS 4983) (Students following IRE Track can only use (SCIE 4500 AND LIFS 4983) to fulfill	ĺ	1	1		Ì	<u> </u>						
LIFS	4963	the requirement.) Biotechnology Capstone Project	3	1	1		Ì	i			[3]	3	3	
LIFS LIFS	4973 4983	Biotechnology Project Research I Biotechnology Project Research II	3 4	1	1		Ì	i						
SCIE	4500	IRE Research Project II	3					:						
CHEM	1020	General Chemistry I	3	<u> </u>	(3)			;					0	
CHEM	1030	General Chemistry II	3			(3)							0	
CHEM	1050	Laboratory for General Chemistry I	1	1	1	ļ		<u>. </u>					1	
CHEM	1055	Laboratory for General Chemistry II Note: CHEM 2110 OR CHEM 2311	3	1	1	1		<u> </u>					1	
CHEM	2110	Organic Chemistry I	3					<u> </u>	3	[3]			3	
CHEM CHEM	2311	Analytical Chemistry Note: CHEM 2155 OR CHEM 2355	3	+	1			i -						
CHEM CHEM	2155 2355	Fundamental Organic Chemistry Laboratory Fundamental Analytical Chemistry Laboratory	1	1	1		Ì			1			1	
CENG	1600	Biotechnology and Its Business Opportunities	3	 	1		3	i i					3	
LANG		Note: LANG 3024 OR LANG 3027 (Students following IRE Track	3	1	1									
LANG	3024	should take LANG 3027 to fulfill the requirement.) Science Communication in English (Life Science)	3					:		3	[3]		3	
LANG LIFS/BIPH/BTEC/	3027	Science Communication in English for Research Students Biotechnology Electives (Courses from the specified elective list; Students	3 15-18		 			! :						
OCES/PHYS/BIEN/		following IRE Track are required to take a minimum of 15 credits; while	15-18					ļ						
CENG		others a minimum of 18 credits. Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)	ĺ	1		Ì	Ì	3		6	3	6	18	
	<u> </u>		<u> </u>	<u> </u>	<u></u>	<u></u>	<u> </u>	<u>i</u>						
	•	d credits for Major Required Courses and Electives	65-73					<u>i </u>					59	
University C			_											
CORE	C3 - C10 C1 & C2	U CORE - Others U CORE - English Language	24	1	1	2	0	3	3	6	3	6	24	
CORE	01α02	Sub-total for University CORE	6 30	1	3	3		<u>!</u>					6 30	
		Sub-total for University CORE	30	1	1	Ī	I Ter	m load (ex	cl. free cre	dits)			30	
					15	13	16	15	16	16	12	15		
						•	•		8#				Ì	

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

() 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 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.

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**Remarks on course(s):

The course was last offered in 2020-21 and was deleted subsequently.

>> 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 for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.