

The Hong Kong University of Science and Technology

School of Science

An Example on Student's Pathway (as of 24 July 2017)

Declaration of dept/div >>

<< Declaration of major

School:		School of Science			Student's Pathways (i.e. Study Pattern)										Remarks					
Department:		Division of Life Science			Pathway 1															
Program:		BSc in Biotechnology			Background: HKDSE 4 Core + 2 Elec (incl. 1/2x BIOL, 1/2x CHEM)															
					Profile: Normative															
Course Offering Dept (course code prefix)	Course Code	Course Title / Courses List	Credits	Major Pre-requisite	Year 1 Fall	Year 1 Spring	Year 2 Fall	Year 2 Spring	Year 3 Fall	Year 3 Spring	Year 4 Fall	Year 4 Spring	Sub-total							
School Requirements																				
SCIE	1000	Science School Induction	0		0	0							0							
COMP		Note: COMP 1001 OR COMP 1021 OR COMP 1022P OR COMP 1022Q OR COMP 2011	3-4																	
COMP	1001	Exploring Multimedia and Internet Computing	3										3							
COMP	1021	Introduction to Computer Science	3			3														
COMP	1022P	Introduction to Computing with Java	3																	
COMP	1022Q	Introduction to Computing with Excel VBA	3																	
COMP	2011	Introduction to Object-oriented Programming	4																	
LANG	2010	English for Science I	3						3				3							
LIFS		Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901	0-3	@	3								3							
LIFS	1901	General Biology I	3																	
LIFS	1902	General Biology II	3	@		3							3							
CHEM	1004	Chemistry in Everyday Life	3										0							
CHEM	1010	General Chemistry IA	3		3								3							
CHEM	1020	General Chemistry IB	2										0							
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	1			{1}							0							
LIFS	1030	Environmental Science	3										0							
LIFS	1903	Laboratory for General Biology I	1		1								1							
LIFS	1904	Laboratory for General Biology II	1			{1}							0							
LIFS	1930	Nature of Life Sciences	3										0							
LIFS	2210	Biochemistry I	3			3							3							
MATH	1012	Calculus IA	4										0							
MATH	1013	Calculus IB	3		3								3							
MATH	1014	Calculus II	3										0							
MATH	1020	Accelerated Calculus	4										0							
MATH	1023	Honors Calculus I	3										0							
MATH	1024	Honors Calculus II	3										0							
MATH	2023	Multivariable Calculus	4										0							
MATH	2121	Linear Algebra	4										0							
MATH	2131	Honors in Linear and Abstract Algebra I	4										0							
PHYS	1001	Physics and the Modern Society	3			3							3							
PHYS	1111	General Physics I	3										0							
PHYS	1112	General Physics I with Calculus	3										0							
PHYS	1113	Laboratory for General Physics I	1										0							
PHYS	1114	General Physics II	3										0							
PHYS	1115	Laboratory for General Physics II	1										0							
PHYS	1312	Honors General Physics I	3										0							
PHYS	1314	Honors General Physics II	3										0							
Required credits for School / Major Pre-requisite Requirements													28							
Major Requirements																				
Major Required Courses and Electives																				
LIFS		Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1903	0-1		{1}								0							
LIFS	1903	Laboratory for General Biology I	1			1							1							
LIFS	1904	Laboratory for General Biology II	1																	
LIFS	2040	Cell Biology	3				3						3							
LIFS	2070	Introduction to Biotechnology	3				3						3							
LIFS	2080	Plant Biology	3					3					3							
LIFS	2210	Biochemistry I	3				{3}						0							
LIFS	3060	Microbiology	3					3					3							
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3						3				3							
LIFS	3140	General Genetics	4						4				4							
LIFS	4150	Plant Biotechnology	3							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 (SCIE 4500 AND LIFS 4983) (Students following IRE Track can only use (SCIE 4500 AND LIFS 4983) to fulfill the requirement.)	3-7																	
LIFS	4963	Biotechnology Capstone Project	3							[3]	3		3							
LIFS	4973	Biotechnology Project Research I	3																	
LIFS	4983	Biotechnology Project Research II	4																	
SCIE	4500	IRE Research Project II	3																	
CHEM		Note: CHEM 1010 OR CHEM 1020	2-3																	
CHEM	1010	General Chemistry IA	3		{3}								0							
CHEM	1020	General Chemistry IB	2																	
CHEM	1030	General Chemistry II	3			{3}							0							
CHEM	1050	Laboratory for General Chemistry I	1		1								1							
CHEM	1055	Laboratory for General Chemistry II	1			1							1							
CHEM		Note: CHEM 2110 OR CHEM 2311	3																	
CHEM	2110	Organic Chemistry I	3					3		[3]			3							
CHEM	2311	Analytical Chemistry	3																	
CHEM		Note: CHEM 2155 OR CHEM 2355	1																	
CHEM	2155	Fundamental Organic Chemistry Laboratory	1						1				1							
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1																	
CENG	1600	Biotechnology and Its Business Opportunities	3						3				3							
LANG	3014	Laboratory Report Writing for Life Science Students	1						1				1							
LANG	4014	English for Life Science Capstone and Final Year Projects	2								[2]	2	2							
LIFS/BIPH/BTEC/BIEN/B MED/CENG		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 elective requirement.)	15-18					3		6	3	3	15							
Required credits for Major Required Courses and Electives													64-73							
University CORE																				
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							6							
Sub-total for University CORE													36							
													Term load (excl. free credits)							
													17	14	15	18	17	16	12	11
													120#							

Notes:

@ 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.

>> 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.

2017-18 BIOT (4Y) (2017-18 intake)

Declaration of dept/div >>

<< Declaration of major