

The Hong Kong University of Science and Technology

School of Science

An Example on Student's Pathway (as of 26 July 2024)

<< 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 Biological Science			Background: 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	1021	Note: COMP 1021 OR COMP 1022P OR COMP 2011 Introduction to Computer Science	3-4						3				3		
COMP	1022P	Introduction to Computing with Java	3												
COMP	2011	Programming with C++	4												
LANG	2010	English for Science I	3						3				3		
LIFS	1901	Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901 General Biology I	0-3	@	3								3		
LIFS	1902	General Biology II	3	@		3							3		
CHEM	1004	Chemistry in Everyday Life	3										0		
CHEM	1010	General Chemistry IA	3										0		
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3										0		
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3										0		
CHEM	1051	Laboratory for General Chemistry A	1										0		
CHEM	1052	Laboratory for General Chemistry B	1										0		
DASC	2010	Calculus for Data Analytics in Science	3										0		
LIFS	1030**	Environmental Science	3										0		
LIFS	1903	Laboratory for General Biology I	1										0		
LIFS	1904	Laboratory for General Biology II	1										0		
LIFS	1930	Nature of Life Sciences	3										0		
LIFS	2210	Biochemistry I	3										0		
MATH	1012	Calculus IA	4										0		
MATH	1013	Calculus IB	3										0		
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		
OCES	1001	The Earth as a Blue Planet	3										0		
OCES	1030	Environmental Science	3										0		
PHYS	1001	Physics and the Modern Society	3										0		
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													12		
Major Requirements															
Major Required Courses and Electives															
LIFS	1903	Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1903 Laboratory for General Biology I	0-1		(1)								0		
LIFS	1904	Laboratory for General Biology II	1			1							1		
LIFS	2040	Cell Biology	3					3					3		
LIFS	2060	Biodiversity	3				3						3		
LIFS	2080	Plant Biology	3					3					3		
LIFS	2210	Biochemistry I	3				(3)						0		
LIFS	2220	Biochemistry II	3					3					3		
LIFS	2240	Cell Biology Laboratory	3					3					3		
LIFS	3040	Animal Physiology	3							3			3		
LIFS	3060	Microbiology	3							3			3		
LIFS	3220	Note: LIFS 3220 OR LIFS 3260 Animal Physiology Laboratory	3							3			3		
LIFS	3260	Microbiology Laboratory	3										3		
LIFS	4960	Note: LIFS 4960 OR (LIFS 4970 AND LIFS 4980) Biological Science Capstone Project	3-7								3	[3]	3		
LIFS	4970	Biological Science Project Research I	3												
LIFS	4980	Biological Science Project Research II	4												
CHEM	1010	Note: CHEM 1010 OR CHEM 1012 General Chemistry IA	3		(3)								0		
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3												
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3			(3)							0		
CHEM	1052	Laboratory for General Chemistry B	1		1								1		
OCES	3160	Ecology	3						3				3		
LANG	3024	Science Communication in English (Life Science)	3							3	[3]		3		
LIFS/BIPH/CHEM/ENVS/OCES/PHYS		Biological Science Electives (Courses from the specified elective list. Courses taken as Major Required Courses may not be counted towards the elective requirement.)	12							3	3	6	12		
Required credits for Major Required Courses and Electives			56-61										47		
University CORE															
CORE	C3 - C12	U CORE - Others	30		3	3	6	3	6	3	3	3	30		
CORE	C1 & C2	U CORE - English Language	6		3	3							6		
Sub-total for University CORE			36										36		
Term load (excl. free credits)															
					10	10	9	15	15	18	9	9			
95#															

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.

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):

- LIFS 1030: 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.

<< Declaration of major