(For students admitted in 2022-23 under the 4-year degree)

BSc in Biochemistry and Cell Biology

In addition to the requirements of their major programs, students are required to complete the University and School requirements for graduation. For details please refer to the respective sections on this website.

Students may use no more than 6 credits earned from courses offered in self-paced online delivery mode to satisfy the graduation requirements of a degree program. This 6-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

For students graduating with an additional major, they must take all the requirements specified for that major, within which they must complete at least 20 single-counted credits. These 20 credits cannot be used to fulfill any other requirements for graduation except for the 120-credit degree requirement.

Under the new 30-credit Common Core Program which is applicable to students admitted to the University in 2022-23 and thereafter, courses that have been counted towards School and/or Major Requirements are not allowed to be reused for fulfilment of the University Common Core Requirements. Students should look up the details of the Common Core Program including the general and School-/program-specific distributional requirements posted on the Common Core website where the link to it is available on this website.

Major Requirements

Students MUST take the following courses prior to enrollment into the major

Major Pre-requisite course(s)

			Credit(s) attained
LIFS		Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1901	0-3
LIFS	1901	General Biology I	3
LIFS	1902	General Biology II	3

Required Course(s)

			Credit(s) attained
LIFS		Note: Students with level 3 or above in HKDSE 1x Biology are exempted from taking LIFS 1903	0-1
LIFS	1903	Laboratory for General Biology I	1
LIFS	1904	Laboratory for General Biology II	1
LIFS	2010	Modern Approaches to Biochemical and Cell Biological Research	3
LIFS	2040	Cell Biology	3
LIFS	2210	Biochemistry I	3
LIFS	2220	Biochemistry II	3
LIFS	2240	Cell Biology Laboratory	3
LIFS	2720	Biochemistry Laboratory	2

LIFS	2820	Biochemical Laboratory Techniques	1
LIFS	3010	Molecular and Cellular Biology I	3
LIFS	3020	Molecular and Cellular Biology II	3
LIFS	3140	General Genetics	4
LIFS/SCIE		Note: LIFS 4961 OR (LIFS 4971 AND LIFS 4981) OR (SCIE 4500 AND LIFS 4981) (Students following IRE Track can only use (SCIE 4500 AND LIFS 4981) to fulfill the requirement.)	3-7
LIFS	4961	Biochemistry and Cell Biology Capstone Project	3
LIFS	4971	Biochemistry and Cell Biology Project Research I	3
LIFS	4981	Biochemistry and Cell Biology Project Research II	4
SCIE	4500	IRE Research Project II	3
CHEM	1011	General Chemistry A: Reactions, Thermodynamics, and Reaction Kinetics	3
CHEM	1012	General Chemistry B: Atomic Structure, Molecules, and Bonding Theories	3
CHEM	1051	Laboratory for General Chemistry A	1
CHEM	1052	Laboratory for General Chemistry B	1
CHEM		Note: CHEM 2110 OR CHEM 2311	3
CHEM	2110	Organic Chemistry I	3
CHEM	2311	Analytical Chemistry	3
CHEM		Note: CHEM 2155 OR CHEM 2355	1
CHEM	2155	Fundamental Organic Chemistry Laboratory	1
CHEM	2355	Fundamental Analytical Chemistry Laboratory	1
LANG		Note: LANG 3024 OR LANG 3027 (Students following IRE Track should take LANG 3027 to fulfill the requirement.)	3
LANG	3024	Science Communication in English (Life Science)	3
LANG	3027	Science Communication in English for Research Students	3

Elective(s)

			Minimum credit(s) required
LIFS/BIPH/ CHEM/OCES/ PHYS		Biochemistry and Cell Biology Electives (Courses from the specified elective list. Students following IRE Track are required to take a minimum of 12 credits; while others should either take a minimum of 20 credits (for those opting for LIFS 4971 & LIFS 4981), or 24 credits (for those opting for LIFS 4961). Courses taken as Major/Track Required Courses may not be counted towards the elective requirement.)	12-24
LIFS		Any LIFS courses at 3000/4000-level	
LIFS	2060	Biodiversity	3
LIFS	2070	Introduction to Biotechnology	3
LIFS	2080	Plant Biology	3
BIPH	3010	Advanced Biological Physics	3
BIPH	4010	Principles of Quantitative Instrumentation	3
CHEM	3120	Organic Chemistry II	3

CHEM	3320	Instrumental Analysis	3
CHEM	4140	Intermediate Organic Chemistry	3
OCES	1010	Principles and Applications of Environmental Science	3
PHYS	2010	Introductory Biological Physics	3

Track Study

International Research Enrichment Track

Students in the IRE Track should also take SCIE 4500 and LIFS 4981 as specified in the major requirements.

Required Course(s)

			Credit(s) attained
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	3
LIFS	3520	Junior Research Project II	2
SCIE	3500	IRE Research Project I	3