(For students admitted in 2012-13 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.

Major Requirements

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

Major Pre-requisite course(s)

			Credit(s)
LIFS		Note: Students with 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)

LIFS	1030	Environmental Science	3
LIFS		Note: Students with 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	2040	Cell Biology	3
LIFS	2210	Introduction to Biochemistry	3
LIFS	2220	Intermediary Metabolism	3
LIFS	2240	Cell Biology Laboratory	3
LIFS	2720	Introductory Biochemical Laboratory	2
LIFS	2820	Biochemical Laboratory Techniques	1
LIFS	3010	Molecular and Cellular Biochemistry I	3
LIFS		Note: LIFS 3020 OR LIFS 3030	3
LIFS	3020	Molecular and Cellular Biochemistry II	3
LIFS	3030	Molecular Biology of the Cell	3
LIFS	3140	General Genetics	4
LIFS		Note: LIFS 4961 OR (LIFS 4971 AND LIFS 4981)	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
CHEM		Note: CHEM 1010 OR CHEM 1020	2-3
CHEM	1010	General Chemistry IA	3
CHEM	1020	General Chemistry IB	2

CHEM	1030	General Chemistry II	3
CHEM	1050	Laboratory for General Chemistry I	1
CHEM	1055	Laboratory for General Chemistry II	1
CHEM		Note: CHEM 2110 OR CHEM 2310	3
CHEM	2110	Organic Chemistry I	3
CHEM	2310	Fundamentals of Analytical Chemistry	3
CHEM		Note: CHEM 2150 OR CHEM 2350	1
CHEM	2150	Organic Chemistry Laboratory	1
CHEM	2350	Analytical Chemistry Laboratory	1

Elective(s)

LIFS/CHEM		Biochemistry and Cell Biology Electives (Courses from the specified elective list. Students opting for LIFS 4961 are required to take 24 credits; students opting for LIFS 4971 & LIFS 4981 are required to take 20 credits.)	20-24
LIFS	2080	Plant Biology	3
LIFS	3002	Special Topics of Biological Sciences	2-4
LIFS	3003**	Advanced Seminar Series / Special Project	3
LIFS	3060	Microbiology	3
LIFS	3070	Biophysics and Physical Biochemistry	3
LIFS	3120	Molecular Biology Techniques	4
LIFS	3240	Introduction to Neurobiology	3
LIFS	3510	Junior Research Project I	2
LIFS	3520	Junior Research Project II	2
LIFS	4000**	Special Topics	3
LIFS	4060	Immunobiology	3
LIFS	4090	Developmental Biology	3
LIFS	4140	Tumor Biology	3
LIFS	4170	Advanced Molecular Genetics	3
LIFS	4190	Advanced Cell Biology	3
LIFS	4540	Structure and Function of Proteins	3
LIFS	4620	Advanced Biological Chemistry	3
LIFS	4800**	Epigenetics and Chromosome Biology	3
LIFS	4950	Neurochemistry	3
CHEM	3120	Organic Chemistry II	3
CHEM	3320	Instrumental Analysis	3
CHEM	4140	Intermediate Organic Chemistry	3

***Remarks on course(s):*

- LIFS 3003: This is a new course subject to approval.
- LIFS 4000: This is a new course subject to approval.
- LIFS 4800: This is a new course subject to approval.