(For students admitted in 2012-13 under the 3-year degree)

Curriculum for BSc in Biochemistry

General Requirements

Students are required to complete the following general requirements for graduation in addition to program specific requirements:

Required Courses in English Communication
Common Core Requirements
Required Course in Physical Education

For details please refer to the section "General Requirements" on this website.

Program Specific Requirements

Credit(s)

Required courses

		LIFS 2210	Introduction to Biochemistry	3
		LIFS 2220	Intermediary Metabolism	3
		LIFS 2720	Introductory Biochemical Laboratory	2
		LIFS 2820	Biochemical Laboratory Techniques	1
		LIFS 3010	Molecular and Cellular Biochemistry I	3
		LIFS 3020	Molecular and Cellular Biochemistry II	3
		LIFS 3040	Animal Physiology	3
	or	LIFS 3060	Microbiology	3
		LIFS 3070	Biophysics and Physical Biochemistry	3
	or	LIFS 3150	Biostatistics	3
		LIFS 3110	Biotechnological Application of Recombinant DNA Techniques	2
		LIFS 3140	General Genetics	4
		LIFS 3210	Principles of Recombinant DNA Technology	1
		LIFS 4660	Biotechnology Seminar	4
	or	LIFS 4971	Biochemical and Cell Biology Project Research I	3
	and	LIFS 4981	Biochemistry and Cell Biology Project Research II	4
		CHEM 2118	Organic Chemistry I	4
		CHEM 2151	Organic Chemistry Laboratory	2
		CHEM 2310	Fundamentals of Analytical Chemistry	3
		CHEM 3120	Organic Chemistry II	3
(1)		MATH 1003	Calculus and Linear Algebra	3
(1)	or	MATH 1018	Concise Calculus	4
		COMP 1001	Exploring Multimedia and Internet Computing	3

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(2)	LIFS	Life Science Elective	5	15
(3)	FREE	Free Elective	3 or 4	9-12

Notes:

(1) Students admitted with a grade D or above in either AL Pure Mathematics or AL Applied Mathematics will replace this course with an approved course in the School of Science or a free elective. Other students should elect one of MATH 1003 or MATH 1018 with respect to their prior mathematics background as follows:

Prior mathematics background: Grade E in AL Pure Mathematics or AL Applied Mathematics; and/or a passing grade in HKCEE Additional Mathematics, AS Mathematics and Statistics, and/or AS Applied Mathematics
Course to be elected: MATH 1018

Prior mathematics background: Grade C or below in HKCEE Additional Mathematics; and/or a passing grade in HKCEE Mathematics; and without a passing grade in AL Pure Mathematics, AL/AS Applied Mathematics, or AS Mathematics and Statistics, Any MATH course below MATH 1003
Course to be elected: MATH 1003

Students taking MATH 1003 need to take 1 extra free credit in order to make up the credit shortfall.

(2) Students have to elect at least five courses from the following LIFS courses:
LIFS 4060/4090/4140/4150/4170/4190/4360/4380/4540/4550/4580/4620/4630/4760/4950.

(3) a) LIFS 3220 and LIFS 3260 are recommended electives.
b) 1000- or 2000- level life science courses (LIFS), excluding LIFS 1011/2040/2060/2080/2240/2280, taken in second or upper year cannot be used to fulfill the FREE elective requirement.
c) Students who take LIFS 4971 and LIFS 4981 have to take a minimum of 3 FREE Elective courses (minimum total credits: 9). Students who take LIFS 4660 have to take a minimum of 4 FREE Elective courses (minimum total credits: 12).

A minimum of 102 credits is required for the BSc program in Biochemistry. Students taking MATH 1003 must take additional course(s) and/or elective(s) of higher-than-required credit value to meet this minimum total of 102 credits.