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

Curriculum for BSc in Molecular Biomedical Sciences

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 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 3060	Microbiology	3
(1)		LIFS 3110	Biotechnological Application of Recombinant DNA Techniques	2
		LIFS 3140	General Genetics	4
(1)		LIFS 3210	Principles of Recombinant DNA Technology	1
		LIFS 3260	Microbiology Laboratory	3
(2)		LIFS 3510	Junior Research Project I	2
(2)		LIFS 3520	Junior Research Project II	2
(3)		LIFS 4972	Biomedical Sciences Research Project I	3
(3)		LIFS 4982	Biomedical Sciences Research Project II	3
		CHEM 2112	Fundamentals of Organic Chemistry	3
		CHEM 2218	Inorganic Chemistry I	4
		CHEM 2310	Fundamentals of Analytical Chemistry	3
(4)		MATH 1003	Calculus and Linear Algebra	3
(4)	or	MATH 1018	Concise Calculus	4
(5)		PHYS 2411	Physics I	4

Elective courses

	Elective types		Minimum no. of courses	Minimum total credits
(6b)	LIFS	Biomedical Science/Biotechnology Elective	1	3
(6a)	LIFS	Life Science Elective	5	15
	FREE	Free Elective	2	5

Notes:

(1) LIFS 3110 and LIFS 3210 can be substituted by LIFS 3120 upon instructor's approval.

(2) This course could be replaced by CHEM 3568 and CHEM 3588.

(3) A new project research course under the supervision of faculty from LIFS/CHEM, which can be substituted by LIFS/CHEM 4000-level courses upon special approval by the program.

(4) Students should take either MATH 1003 or MATH 1018 with respect to their prior mathematics background as follows:

Prior mathematics background: HKCEE Mathematics only, or a grade C or below in HKCEE Additional Mathematics
Course to be taken: MATH 1003

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

For EAS and Preparatory Year students who have already taken a MATH course, they may substitute the requirement with a FREE elective instead.

(5) PHYS 2411 may be substituted with another physics course(s) of 4 credits including the PHYS 1411 plus PHYS 1431 series. For EAS and Preparatory Year students who have already taken a 4-credit PHYS course, they may substitute with a FREE elective instead.

(6a) Students have to elect five Biomedical Science electives from the following courses. At least four of them should be courses at 4000 or above level. They can be selected from the following courses:
LIFS 2080, LIFS 2280, LIFS 3020, LIFS 3030, LIFS 3040, LIFS 3070, LIFS 3120, LIFS 3130, LIFS 3150, LIFS 3160, LIFS 3220, LIFS 3240, LIFS 3330, LIFS 4060, LIFS 4090, LIFS 4140, LIFS 4150, LIFS 4170, LIFS 4190, LIFS 4360, LIFS 4380, LIFS 4540, LIFS 4550, LIFS 4580, LIFS 4620, LIFS 4630, LIFS 4660, LIFS 4760, LIFS 4950, LIFS 4960,
CHEM 2151, CHEM 2411, CHEM 2558, CHEM 2578, CHEM 3120,CHEM 3220, CHEM 3320, CHEM 3420, CHEM 4110, CHEM 4140
MATH 4333 or additional course approved by program coordinator. Among these courses, CHEM 2411 is recommended as an elective for students with preference of a stronger chemistry oriented curriculum.

(6b) Biomedical Science and Biotechnology electives to be selected among the following courses:
LIFS 4060, LIFS 4140, LIFS 4150, LIFS 4360, LIFS 4380, LIFS 4630, LIFS 4760.

A minimum of 105 credits is required for the BSc program in Molecular Biomedical Sciences.