(For students admitted in 2012-13 under the 4-year degree)

BSc in Biotechnology

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

			Credit(s)
Students MUST take the following courses prior to enrollment into the major			
Major Pre-requisite course(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	2080	Plant Biology	3
LIFS	2210	Introduction to Biochemistry	3
LIFS	3060	Microbiology	3
LIFS	3110	Biotechnological Application of Recombinant DNA Techniques	2
LIFS	3140	General Genetics	4
LIFS	3210	Principles of Recombinant DNA Technology	1
LIFS	4150	Plant Biotechnology	3
LIFS	4360	Aquaculture Biotechnology	3
LIFS		Note: LIFS 4660 OR LIFS 4963 OR (LIFS 4973 AND LIFS 4983)	3-7
LIFS	4660	Biotechnology Seminar	4
LIFS	4963	Biotechnology Capstone Project	3
LIFS	4973	Biotechnology Project Research I	3
LIFS	4983	Biotechnology Project Research II	4
LIFS	4904**	Marine Biotechnology	3
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
CENG	1600	Biotechnology and Its Business Opportunities	3

Elective(s)

LIFS/CENG		Biotechnology Electives (Courses from the specified elective list. Courses taken as Major Required Courses may not be counted towards the elective requirement.)	15
LIFS	2240	Cell Biology Laboratory	3
LIFS	2280	Plant Biology Laboratory	3
LIFS	3040	Animal Physiology	3
LIFS	3150	Biostatistics	3
LIFS	3220	Animal Physiology Laboratory	3
LIFS	3260	Microbiology Laboratory	3
LIFS	4380	Pharmacology and Toxicology	3
LIFS	4550	Biochemistry of Nutrition	3
LIFS	4580	Bioinformatics	3
LIFS	4630	Advanced Topics in Biotechnology	3
LIFS	4660	Biotechnology Seminar	4
LIFS	4760	Biochemistry of Diseases	3
LIFS	4973	Biotechnology Project Research I	3
LIFS	4983	Biotechnology Project Research II	4
BIEN	3010	Biodesign: A Taste of Solving Real-Life Healthcare Problems	3
CENG	2110	Process Principles and Engineering Economics	3
CENG	4620	Bioproducts and Processing	3
CENG	4670	Pharmaceutical Engineering	3

***Remarks on course(s):*

- LIFS 4904: This is a new course subject to approval.