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

BSc in Environmental Science

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/MATH		Note: [LIFS 1901 AND LIFS 1902] OR [(MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020] (Students with HKDSE 1x Biology are exempted from taking LIFS 1901)	3-6
LIFS	1901	General Biology I	3
LIFS	1902	General Biology II	3
MATH	1013	Calculus I	3
MATH	1014	Calculus II	3
MATH	1020	Accelerated Calculus	4
MATH	1023	Honors Calculus I	3
MATH	1024	Honors Calculus II	3

Required Course(s)

ENVS	3001	Pollution Monitoring and Measurement	3
ENVS	3002**	Introduction to Atmospheric Science	3
ENVS	3003**	Ocean Science	3
ENVS	4001	Environmental Impact and Risk Assessment	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	2310	Fundamentals of Analytical Chemistry	3
CHEM	2350	Analytical Chemistry Laboratory	1
CHEM/MATH		Note: CHEM 4310 OR MATH 2023	3-4
CHEM	4310	Environmental Chemistry	3
MATH	2023	Multivariable Calculus	4
CHEM/LIFS		Note: CHEM 4680 OR CHEM 4690 OR LIFS 4964 OR (LIFS 4974 AND LIFS 4984)	3-7
CHEM	4680	Undergraduate Research	3
CHEM	4690**	Capstone Project	4

LIFS	4964**	Environmental Science Capstone Project Research	3
LIFS	4974**	Environmental Science Project Research I	3
LIFS	4984**	Environmental Science Project Research II	4
LIFS	1030	Environmental Science	3
LIFS	2060	Biodiversity	3
LIFS		Note: LIFS 3060 OR LIFS 3160	3
LIFS	3060	Microbiology	3
LIFS	3160	Ecology	3
LIFS/MATH		Note: LIFS 3150 OR MATH 2421	3-4
LIFS	3150	Biostatistics	3
MATH	2421	Probability	4
PHYS	1003	Energy and Related Environmental Issues	3
ENVR	3110	Sustainable Development	3

Elective(s)

ENVS/CHEM/ LIFS/MATH/ ENVR		Environmental Science Electives (Courses from the specified elective list. A maximum of two 1000- /2000-level Environmental Science electives may be used to count towards this requirement.)	18
ENVS	2001	Environmental Conservation and Sustainability in Practice	1
ENVS	2002	Environmental Internship	2
ENVS	4301	Environmental Conservation	3
CHEM	2110	Organic Chemistry I	3
CHEM	2210	Inorganic Chemistry I	3
CHEM	2410	Physical Chemistry I: Equilibrium Thermodynamics and Statistical Mechanics	3
CHEM	4320	Environmental Analytical Chemistry	3
CHEM	4350**	Environmental Chemistry Laboratory	2
LIFS	3130	Marine Biology	3
LIFS	3260	Microbiology Laboratory	3
LIFS	4903**	Fish Biology and Fishery Management	3
LIFS	4905**	Marine Molecular Biology and Ecology	3
MATH	3423	Statistical Inference	3
MATH	3426	Sampling	3
ENVR	2020	Urban Air Pollution	3
ENVR	3220	Energy Resources and Usage	3
ENVR	3420	Environmental Law and Regulations	3
ENVR	4330	Environmental Geographical Information System	3

***Remarks on course(s):*

-	CHEM 4350:	This is a new course subject to approval.
-	CHEM 4690:	This is a new course subject to approval.
-	ENVS 3002:	This is a new course to take effect in Fall, 2014-15.
-	ENVS 3003:	This is a new course to take effect in Fall, 2014-15.
-	LIFS 4903:	This is a new course subject to approval.
-	LIFS 4905:	This is a new course subject to approval.
-	LIFS 4964:	This is a new course subject to approval.
-	LIFS 4974:	This is a new course subject to approval.
-	LIFS 4984:	This is a new course subject to approval.