

Scheme Structure for
Bachelor of Science (Honours) Scheme in Life and Environmental Sciences
comprising
Bachelor of Science (Honours) in Life Sciences
Bachelor of Science (Honours) in Environmental Science

(Last updated as of 16 March 2026)

Scheme Structure and Curriculum

1) First Two Years

[At least 60 credits; requirements for the exit award of *Associate of Science*]

a) General Education (GE) (12 to 15 subjects, 36 to 45 credits; plus a non-credit-bearing subject)

i) GE Compulsory Subjects (8 to 11 subjects, 24 to 33 credits)

SEHH1069	Calculus and Linear Algebra
SEHH2041	Applied Computing
LCH1507 or LCH1106	Chinese Communication for College Students (Cantonese Version) or Chinese Communication for College Students (Putonghua Version) [%]
LCH1487	English for Academic Studies I
LCH1488	English for Academic Studies II
SHDH1072/ SHDH1120	Critical and Ethical Thinking [*]
SEHH1049	Physics I
SEHH2031	Statistics
SEHH1106	Foundation Biology [^]
SEHH1107	Foundation Chemistry [%]
SEHH1108	Foundation Physics [@]

[%] Students are required to take either LCH1507 “Chinese Communication for College Students (Cantonese Version)” or LCH1508 “Chinese Communication for College Students (Putonghua Version)”. Students who are Non-Chinese Speakers (NCS) will be exempted from the Chinese subject and required to take a replacement subject to be recommended by the Programme Leader. Students whose Chinese standards are at junior secondary level or below will be required to take an alternative Chinese subject LCH1492 “Elementary Chinese”.

^{*} The subject “Critical and Ethical Thinking” is taught in either “English and Chinese (Cantonese)” [Code: SHDH1072] or “English and Chinese (Putonghua)” [Code: SHDH1120]. Students are required to take either version of the subject.

[^] SEHH1106 “Foundation Biology” is a foundation subject which will be waived for students who enter the programme with Level 2 or above in HKDSE Biology or Biology component in Combined Science OR Grade E or above in HKCEE Biology.

[%] SEHH1107 “Foundation Chemistry” is a foundation subject which will be waived for students who enter the programme with Level 2 or above in HKDSE Chemistry or Chemistry component in Combined Science OR Grade E or above in HKCEE Chemistry.

[@] SEHH1108 “Foundation Physics” is a foundation subject which will be waived for students who enter the programme with Level 2 or above in HKDSE Physics or Physics component in Combined Science AND Level 3 or above in any one HKDSE subject other than English Language OR Grade E or above in HKCEE Physics.

ii) Essential Components of General Education (non-credit-bearing)

All students are required to complete a non-credit-bearing subject “Essential Components of General Education” which includes the following modules:

- Academic Integrity
- Artificial Intelligence and Data Analytics
- Innovation and Entrepreneurship
- National Education

iii) GE Elective Subjects under the following 5 Cluster Areas (4 subjects, 12 credits)

- Human Nature, Relations and Development (HRD)
- Science, Technology and Environment (STE)
- Language and Communication (LC)
- Chinese History and Culture (CHC)
- Cultures, Organisations, Societies and Globalisation (COSG)

All students under this Scheme should complete 4 GE elective subjects. The GE elective subjects to be selected by a student, together with the GE compulsory subjects stated above should be under at least four of the five cluster areas, and at least one of them should be from the cluster “Chinese History and Culture”.

b) Major Requirements (8 subjects, 24 credits)

i) Scheme Compulsory Subjects (2 subjects, 6 credits)	
SEHH1109	General Biology
SEHH1110	General Chemistry I
ii) Programme-specific Compulsory Subjects (5 subjects, 15 credits)	
Life Sciences	
SEHH1112	Basic Laboratory Techniques and Safety
SEHH2231	General Biochemistry
SEHH2254	Cell Biology
SEHH2284	Molecular Biology
SEHH2320	Human Physiology
Environmental Science	
SEHH1111	General Chemistry II
SEHH1112	Basic Laboratory Techniques and Safety
SEHH2011	Environmental Science
SEHH2261	Analytical Chemistry
SEHH2274	Organic Chemistry

iii) Programme-specific Elective Subjects* (any 1 subject, 3 credits)	
<i>Life Sciences</i>	
SEHH1111	General Chemistry II
SEHH2008	Chemistry and Modern Living
SEHH2011	Environmental Science
SEHH2014	Food Hygiene and Nutritional Health
SEHH2232	General Microbiology
SEHH2235	Introduction to Pathophysiology and Pharmacology
SEHH2261	Analytical Chemistry
SEHH2275	Physical Chemistry
SEHH2362	Human Physiology for Biomedical Science
SHDH2187	Biological Psychology
<i>Environmental Science</i>	
SEHH2008	Chemistry and Modern Living
SEHH2014	Food Hygiene and Nutritional Health
SEHH2231	General Biochemistry
SEHH2232	General Microbiology
SEHH2254	Cell Biology
SEHH2262	Architectural Technology in the Built Environment
SEHH2275	Physical Chemistry
SEHH2362	Human Physiology for Biomedical Science

* Offering of any elective subjects is subject to sufficient enrolment.

2) Final Two Years

[At least 60 credits, including 9 credits of General University Requirements (GUR) and 51 credits of Major Requirements]

The curriculum of the final two years is the same as that for the proposed 2-year full-time top-up *BSc (Hons) Scheme in Life and Environmental Sciences*. The Work-Integrated Education (WIE) Requirement under the top-up degree scheme is also applicable to students of the 4-year degree scheme.

C) Exit Award

Students who have completed the requirements specified above may apply to exit the programme of study with a PolyU-HKCC award of *Associate of Science*.