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

# BSc in Biological 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 | | 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 | 2060 | Biodiversity | 3 |
| LIFS | 2080 | Plant Biology | 3 |
| LIFS | 2210 | Introduction to Biochemistry | 3 |
| LIFS | 2220 | Intermediary Metabolism | 3 |
| LIFS | 2240 | Cell Biology Laboratory | 3 |
| LIFS | 3040 | Animal Physiology | 3 |
| LIFS | 3060 | Microbiology | 3 |
| LIFS | 3160 | Ecology | 3 |
| LIFS | | Note: LIFS 4960 OR (LIFS 4970 AND LIFS 4980) | 2-8 |
| LIFS | 4960 | Summer Project Research** | 2** |
| LIFS | 4970 | Project Research I** | 4** |
| LIFS | 4980 | Project Research II** | 4 |
| 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 |

## Elective(s)

| | | | |
|---|---|---|---|
| LIFS/CHEM | | Biological Science Electives (Courses from the specified elective list) | 12 |
| LIFS | 2280 | Plant Biology Laboratory | 3 |
| LIFS | 2720 | Introductory Biochemical Laboratory | 2 |
| LIFS | 2820 | Biochemical Laboratory Techniques | 1 |
| LIFS | 3002 | Special Topics of Biological Sciences | 2-4 |
| LIFS | 3003** | Advanced Seminar Series / Special Project | 3 |
| LIFS | 3070 | Biophysics and Physical Biochemistry | 3 |
| LIFS | 3110 | Biotechnological Application of Recombinant DNA Techniques | 2 |
| LIFS | 3130 | Marine Biology | 3 |
| LIFS | 3140 | General Genetics | 4 |
| LIFS | 3150 | Biostatistics | 3 |
| LIFS | 3210 | Principles of Recombinant DNA Technology | 1 |
| LIFS | 3220 | Animal Physiology Laboratory | 3 |
| LIFS | 3260 | Microbiology Laboratory | 3 |
| LIFS | 3330 | Marine Biology Laboratory | 3 |
| LIFS | 4000** | Special Topics | 3 |
| LIFS | 4060 | Immunobiology | 3 |
| LIFS | 4150 | Plant Biotechnology | 3 |
| LIFS | 4380 | Pharmacology and Toxicology | 3 |
| LIFS | 4550 | Biochemistry of Nutrition | 3 |
| LIFS | 4760 | Biochemistry of Diseases | 3 |
| LIFS | 4950 | Neurochemistry | 3 |
| CHEM | 2110 | Organic Chemistry I | 3 |
| CHEM | 2150 | Organic Chemistry Laboratory | 1 |
| CHEM | 2310 | Fundamentals of Analytical Chemistry | 3 |
| CHEM | 2350 | Analytical Chemistry Laboratory | 1 |
| CHEM | 3120 | Organic Chemistry II | 3 |

***Remarks on course(s):*

- LIFS 3003: This is a new course subject to approval.
- LIFS 4000: This is a new course subject to approval.
- LIFS 4960: The course title will be changed to "Biological Science Capstone Project" starting from Fall, 2015-16.
- LIFS 4960: The credit value will be changed to 3 starting from Fall, 2015-16.
- LIFS 4970: The course title will be changed to "Biological Science Project Research I" starting from Fall, 2015-16.
- LIFS 4970: The credit value will be changed to 3 starting from Fall, 2015-16.
- LIFS 4980: The course title will be changed to "Biological Science Project Research II" starting from Spring, 2015-16.