

**Biology**  
**Applicable to students admitted in 2016-17**

**Major Programme Requirement**

Students are required to complete a minimum of 64[a] units of courses as follows:

	Units
1. Faculty Package: Group A: LSCI1002 Group B: CHEM1280 (preferred) or 1070 A course from the following Group C: MATH1520 (preferred) or 1010 Group D: (PHYS1001 or 1002) (preferred) or 1111 Group E: STAT1012 (preferred) or 1011	9
2. Required Courses: BCHE2030, BIOL2120, 2210, 2410, 3012, 3022, 3410, 3560, 3570, 3610, 3620, LSCI2002#	28
3. Elective Courses:	27
(a) One laboratory course from BIOL2213, 2313, 3413 and another laboratory course from BIOL4012, 4032, MBTE4033#	
(b) BCHE3050#, 3080#, 4040#, 4060#, 4090#, 4130#, BIOL3310, 3530, 3630 (or FNESC4101# and 4102#), 3710, 4010, 4120, 4220, 4230, 4260, 4310, 4420, 4510, 4520, 4710, CMBI4101#, 4102#, 4201#, 4202#, 4203#, ENSC4210# (or 3520#), FNESC3010#, 4180# (or 3180#), 5130#, LSCI2003#, MBTE4320#, 4510#, 4530#, STAT3210# and any course not taken in 3(a).	
(c) Capstone course (at least 3 units, with a maximum of 7 units): BIOL4901, 4902, 4903, 4906, 4907, LSCI4000#	
<b>Total:</b>	<b>64[a]</b>

**Explanatory Notes:**

1. BIOL courses at 2000 and above level as well as those labeled as # will be included in the calculation of Major GPA for honours classification.

[a] Study Option: Berkeley Biosciences Study Abroad Programme

Students who undergo one term of studies at the University of California, Berkeley, USA will take courses offered by the Berkeley Biosciences Study Abroad Programme. Units obtained from the Programme will be recognized as up to 12 units of Major Programme requirement. This option will be recorded on transcript.

	Recommended Course Pattern	Units
<b>First Year of Attendance</b>	1 <sup>st</sup> term Faculty Package: Any one course from MATH1520, PHYS1001 or 1002, STAT1012  Major Required: Major Elective(s):	3
	2 <sup>nd</sup> term	

	Faculty Package: LSCI1002, CHEM1280 Major Required: Major Elective(s):	6
<b>Second Year of Attendance</b>	1 <sup>st</sup> term Major Required: BCHE2030, BIOL2120, LSCI2002 Major Elective(s):	8
	2 <sup>nd</sup> term Major Required: BIOL2210, 2410, 2213*, 2313* Major Elective(s):	5-6
<b>Third Year of Attendance</b>	1 <sup>st</sup> term Major Required: BIOL3012, 3410, 3560, 3610, 3413* Major Elective(s): Any one elective	9-10 3
	2 <sup>nd</sup> term Major Required: BIOL3022, 3570, 3620 Major Elective(s): Any two electives	6 6
	Summer session Major Capstone: BIOL4901	2
	1 <sup>st</sup> term Major Capstone: BIOL4902, 4906, 4907, LSCI4000 Major Elective(s): Any two electives	2-4 6
<b>Fourth Year of Attendance</b>	2 <sup>nd</sup> term Major Capstone: BIOL4903, LSCI4000 (if not taken) Major Elective(s): Any two electives	2-3 6
	<b>Total (including Faculty Package):</b>	<b>64</b>

\* Choose one from the three laboratory courses

<b>Minor Programme Title</b>	
Biology	
<b>Minor Programme Requirement</b>	
Students are required to complete a minimum of 21 units of courses, with at least 9 units of courses at 3000 or above level, as follows:	
	Units
1. Required Courses:	
(a) LSCI1002	3
(b) BIOL2120, 2210 or 2410	2
(c) BIOL3560 and 3570 or BIOL3610 and 3620	4
2. Elective Courses (12 units of courses from the following list, including any courses not taken in 1(b) and 1(c) above): BIOL2213, 2313, 3012, 3022, 3310, 3410, 3413, 3530, 3630, 3710, 4010, 4012, 4032, 4120, 4220, 4230, 4260, 4310, 4420, 4510, 4520, 4710	12
<b>Total:</b>	<b>21</b>

Course List		
<i>Course Code</i>	<i>Course Title</i>	<i>Unit(s)</i>

BIOL2120	Cell Biology	3
BIOL2210	Ecology	3
BIOL2213	Ecology Laboratory	1
BIOL2313	Genetics Laboratory	1
BIOL2410	General Genetics	2
BIOL3012	Biodiversity Laboratory I	2
BIOL3022	Biodiversity Laboratory II	2
BIOL3310	Human Biology	3
BIOL3410	General Microbiology	3
BIOL3413	Microbiology Laboratory	1
BIOL3530	Plant Physiology	3
BIOL3560	Biology of Fungi and Non-Vascular Plants	2
BIOL3570	Biology of Vascular Plants	2
BIOL3610	Invertebrate Form and Function	2
BIOL3620	Vertebrate Life	2
BIOL3630	Animal Physiology	3
BIOL3710	Marine Biology	3
BIOL4010	Evolutionary Biology	3
BIOL4012	Field and Environmental Biology	2
BIOL4032	Physiological Investigations	2
BIOL4120	Developmental Biology	3
BIOL4220	Environmental Biotechnology	3
BIOL4230	Global Change Biology	3
BIOL4260	Conservation Biology	3
BIOL4310	Human Genetics	3
BIOL4420	Marine Microbial Ecology	2
BIOL4510	Hong Kong Flora and Vegetation	3
BIOL4520	Plant Metabolism and Metabolic Engineering	2
BIOL4710	Fish Biology and Mariculture	3
BIOL4901	Senior Experimental Project I	2
BIOL4902	Senior Experimental Project II	2
BIOL4903	Senior Experimental Project III	2
BIOL4906	Internship	2
BIOL4907	Field Study	2