Biology
Applicable to students admitted in 2017-18

Studen	nts are required to complete a minimum of 64[a] units of courses as follows:	
		Units
1.	Faculty Package:	9
	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	
2.	Required Courses:	31
	BCHE2030, BIOL2120, 2210, 2410, 3012, 3022, 3410, 3560, 3570,	51
	3610, 3620, 4010, LSCI2002#	
3.	Elective Courses:	24
(a)	One laboratory course from BIOL2213, 2313, 3413 and another laboratory course from BIOL4012, 4032, MBTE4033#	
(b)	BCHE3050#, 3080#, 4040#, 4060#, 4090#, 4130#, BIOL3310, 3420,	
(0)	3530, 3630 (or FNSC4101# and 4102#), 3710, 4120, 4220, 4230, 4260,	
	4310, 4420, 4510, 4520, CMBI4101#, 4102#, 4201#, 4202#, 4203#,	
	ENSC3520#, FNSC3010#, 3180#, 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#	
	Total:	64 [a]
	ition to fulfilling the above Major Programme Requirement, students meeting t	he criteria
specif	ted by the Faculty can take the following stream offered by the Faculty: ce, Technology And Research Stream	
specif: Science	ee, Technology And Research Stream	
specif: Science		Units
specif: Science	ce, Technology And Research Stream Its are required to complete a minimum of 12 units of courses as follows: Required Courses:	Units
specif Sciend Studer 1.	ce, Technology And Research Stream Ints are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course:	Units 3
specif Sciend Studer 1.	ee, Technology And Research Stream Ints are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course: Choose from the two remaining groups of the Faculty Package that have	
specif Scienc Studer 1. (a)	ce, Technology And Research Stream Ints are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course: Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement	3
specif Scienc Studer 1. (a)	ee, Technology And Research Stream Ints are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course: Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement Research Courses:	
specif Science Studer 1. (a) (b)	 ce, Technology And Research Stream ints are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course: Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement Research Courses: STAR2000, 3000, 4000[b] 	3 6
specif Science Studer 1. (a) (b)	 ce, Technology And Research Stream ints are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course: Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement Research Courses: STAR2000, 3000, 4000[b] Seminar Courses: 	3
specif Science Studer	 ce, Technology And Research Stream ints are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course: Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement Research Courses: STAR2000, 3000, 4000[b] 	3 6
specif Science Studer 1. (a) (b)	 ce, Technology And Research Stream ints are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course: Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement Research Courses: STAR2000, 3000, 4000[b] Seminar Courses: 	3 6

Total:

12

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.
- [b] Students may select research-oriented course(s), as approved by the Major Programme, to substitute up to 4 units for fulfillment of Research Courses requirement.
- [c] Students must complete any exchange/research/internship programme(s) offered by the University, Colleges, the Faculty of Science or Major Programme, as approved by the Major Programme, to fulfill the Experiential Learning requirement. Students are responsible for the extra costs incurred in the exchange/research/internship programme(s).

Biology		
	Recommended Course Pattern	Units
First Year of	1 st term	
Attendance	Faculty Package: Any one course from MATH1520,	3
	PHYS1001 or 1002, STAT1012	
	Major Required:	
	Major Elective(s):	
	2 nd term	
	Faculty Package: LSCI1002, CHEM1280	6
	Major Required:	
	Major Elective(s):	
Second Year of	1 st term	
Attendance	Major Required: BCHE2030, BIOL2120, LSCI2002	8
	Major Elective(s):	
	2 nd term	
	Major Required: BIOL2210, 2410, 2213*, 2313*	5-6
	Major Elective(s):	
Third Year of	1 st term	
Attendance	Major Required: BIOL3012, 3410, 3560, 3610, 3413*	9-10
	Major Elective(s):	
	2 nd term	
	Major Required: BIOL3022, 3570, 3620	6
	Major Elective(s): Any two electives	6
	Summer session	
	Major Capstone: BIOL4901	0-2
Fourth Year of	1 st term	_
Attendance	Major Required: BIOL4010	3
	Major Capstone: BIOL4902, 4906, 4907, LSCI4000	2-4
	Major Elective(s): Any one elective	3
	2 nd term	
	Major Capstone: BIOL4903, LSCI4000 (if not taken)	2-3
	Major Elective(s): Any two electives	6

	Total (including Faculty Package):	64
* Choose one free	om the three laboratory courses	
Biology — Scie	nce, Technology And Research Stream (STARS)	
	Recommended Course Pattern	Units
First Year of	1 st term	
Attendance	Faculty Package: two courses	6
	Major Required:	
	Major Elective(s):	
	2 nd term	
	Faculty Package: two courses	6
	Major Required:	
	Major Elective(s):	
	STARS: STAR2050	0-1
	Summer session	
	STARS : STAR2050 (if not taken)	0-1
Second Year of		
Attendance	Major Required: BCHE2030, BIOL2120, LSCI2002	8
	Major Elective(s):	
	STARS : STAR2000 or 3050	1
	2 nd term	-
	Major Required: BIOL2210, 2410, 2213*, 2313*	5-6
	Major Elective(s):	2 0
	STARS : STAR2000 (if not taken) or 3050 (if not taken)	1
Third Year of	1 st term	-
Attendance	Major Required: BIOL3012, 3410, 3560, 3610, 3413*	9-10
	Major Elective(s):	, 10
	STARS : STAR3000 or 4050	1-2
	2 nd term	
	Major Required: BIOL3022, 3570, 3620	6
	Major Elective(s): Any two electives	6
	STARS : STAR3000 (if not taken) or 4050 (if not taken)	1-2
	Summer session	
	Major Elective Capstone : BIOL4901	2
Fourth Year of		
		1

* Choose one from the three laboratory courses

2nd term

[@] Students may take BIOL4902 and 4903 as a substitute for STAR4000.

Major Elective(s): Any one elective

Major Elective(s): Any two electives

Major Required: BIOL4010

Minor Programme Title

Biology

Attendance

Minor Programme Requirement

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:

Major Capstone: BIOL4902[@], 4906, 4907, LSCI4000

Major Capstone: BIOL4903[@], LSCI4000 (if not taken)

Total (including Faculty Package):

3

2-4

3

2-3

6

73

	Units
Required Courses:	
LSCI1002	3
BIOL2120, 2210 or 2410	2
BIOL3560 and 3570 or	4
BIOL3610 and 3620	
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, 3420, 3530, 3630, 3710, 4010, 4012, 4032, 4120, 4220, 4230, 4260, 4310, 4420, 4510, 4520	12
Total:	21
	LSCI1002 BIOL2120, 2210 or 2410 BIOL3560 and 3570 or BIOL3610 and 3620 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, 3420, 3530, 3630, 3710, 4010, 4012, 4032, 4120, 4220, 4230, 4260, 4310, 4420, 4510, 4520

Course List		
Course Code	Course Title	Unit(s)
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
BIOL3420	Advanced Genetics and Epigenetics	3
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
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
STAR2000	Undergraduate Research in Science I	1
STAR2050	Seminar I	1
STAR3000	Undergraduate Research in Science II	2
STAR3050	Seminar II	1
STAR4000	Undergraduate Research in Science III	3
STAR4050	Seminar III	1