Biology
Applicable to students admitted in 2019-20

1714J01	· Programme Requirement	
Studer	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:	32
	BCHE2030, BIOL2120, 2210, 2410, 2420, 3012, 3022, 3410, 3560,	
	3570, 3610, 3620, 4010, LSCI2002#	
3.	Elective Courses:	23
(a)	One laboratory course from BIOL2213, 2313, 3413 and another	
(u)	laboratory course from BIOL4012, 4032, MBTE4033#	
(b)	BCHE3050#, 3080#, 4040#, 4060#, 4090#, 4130#, BIOL3310, 3420,	
(0)	3510, 3530, 3630 (or FNSC4101# and 4102#), 3710, 4120, 4230, 4260,	
	4310, 4420, 4510, 4520, 4610, CMBI4101#, 4102#, 4201#, 4202#,	
	4203#, ENSC3520#, FNSC3010#, 3180#, LSCI2003#, MBTE3510#,	
	3511#, 3518#, 3521#, 3528#, 3531#, 3550#, 3558#, 3560#, 3568#,	
	4320#, 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#, 4911#, 4912#, 4913#	
	Total:	64 [a]
	ition to fulfilling the above Major Programme Requirement, students meeting the ded by the Faculty can take the following stream offered by the Faculty:	ne criteria
-		
-	e, Technology And Research Stream	
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Sciend	re, Technology And Research Stream Its are required to complete a minimum of 12 units of courses as follows:	Units
Science Studen	nts are required to complete a minimum of 12 units of courses as follows:	Units
Science Studen 1.	nts are required to complete a minimum of 12 units of courses as follows: Required Courses:	
Science Studen	nts are required to complete a minimum of 12 units of courses as follows: Required Courses: One Faculty Package Course:	Units 3
Science Studen 1.	nts 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	
Science Studer 1. (a)	nts 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
Science Studen 1.	nts 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:	
Science Studen 1. (a) (b)	nts 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
Science Studer 1. (a)	nts 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
Science Studen 1. (a) (b)	nts 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
Science Studen 1. (a) (b)	nts 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, 2420, 2213*, 2313*	6-7
	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, LSCI4911	0-2
Fourth Year of	1 st term	
Attendance	Major Required: BIOL4010	3
	Major Capstone: BIOL4902, 4906, 4907, LSCI4000, 4912	0-4
	Major Elective(s): Any one elective	3
	2 nd term	<u> </u>
	Major Capstone: BIOL4903, LSCI4000 (if not taken), 4913	0-3
	Major Elective(s): Any two electives	6
	Total (including Faculty Package):	64

* Choose one from the three laboratory courses

AttendanceMajor Required: BCHE2030, BIOL2120, LSCI2002 Major Elective(s): STARS : STAR2000 or 3050 2^{nd} termMajor Required: BIOL2210, 2410, 2420, 2213*, 2313* Major Elective(s): STARS : STAR2000 (if not taken) or 3050 (if not taken)Third Year of Attendance 1^{st} term Major Required: BIOL3012, 3410, 3560, 3610, 3413* Major Elective(s): STARS : STAR3000 or 4050 2^{nd} term Major Required: BIOL3022, 3570, 3620 Major Elective(s): Any two electives STARS : STAR3000 (if not taken) or 4050 (if not taken)Summer session Major Elective Capstone : BIOL4901Fourth Year of Attendance 1^{st} term Major Required: BIOL4010 Major Capstone: BIOL4902@, 4906, 4907, LSCI4000 Major Elective(s): Any one elective 2^{nd} term Major Capstone: BIOL4903@, LSCI4000 (if not taken)	Units
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Major Elective(s): Any two electives STARS : STAR3000 (if not taken) or 4050 (if not taken)Summer session Major Elective Capstone : BIOL4901Fourth Year of Attendance1st term Major Required: BIOL4010 Major Capstone: BIOL4902@, 4906, 4907, LSCI4000 Major Elective(s): Any one elective 2^{nd} term Major Capstone: BIOL4903@, LSCI4000 (if not taken)	ſ
STARS : STAR3000 (if not taken) or 4050 (if not taken) Summer session Major Elective Capstone : BIOL4901 Fourth Year of Attendance Major Required: BIOL4010 Major Capstone: BIOL4902 [@] , 4906, 4907, LSCI4000 Major Elective(s): Any one elective 2 nd term Major Capstone: BIOL4903 [@] , LSCI4000 (if not taken)	6
Summer session Major Elective Capstone : BIOL4901 Fourth Year of Attendance Major Required: BIOL4010 Major Capstone: BIOL4902 [@] , 4906, 4907, LSCI4000 Major Elective(s): Any one elective 2 nd term Major Capstone: BIOL4903 [@] , LSCI4000 (if not taken)	6
Major Elective Capstone : BIOL4901Fourth Year of Attendance1st term Major Required: BIOL4010 Major Capstone: BIOL4902@, 4906, 4907, LSCI4000 Major Elective(s): Any one elective2nd term Major Capstone: BIOL4903@, LSCI4000 (if not taken)	1-2
Fourth Year of Attendance 1st term Major Required: BIOL4010 Major Capstone: BIOL4902@, 4906, 4907, LSCI4000 Major Elective(s): Any one elective 2nd term Major Capstone: BIOL4903@, LSCI4000 (if not taken) 1st term	2
AttendanceMajor Required: BIOL4010 Major Capstone: BIOL4902@, 4906, 4907, LSCI4000 Major Elective(s): Any one elective2nd term Major Capstone: BIOL4903@, LSCI4000 (if not taken)	2
Major Capstone: BIOL4902 [@] , 4906, 4907, LSCI4000 <u>Major Elective(s): Any one elective</u> 2 nd term Major Capstone: BIOL4903 [@] , LSCI4000 (if not taken)	-
Major Elective(s): Any one elective2nd termMajor Capstone: BIOL4903@, LSCI4000 (if not taken)	3
2 nd term Major Capstone: BIOL4903 [@] , LSCI4000 (if not taken)	2-4
Major Capstone: BIOL4903 [@] , LSCI4000 (if not taken)	3
	2-3
Major Elective(s): Any two electives Total (including Faculty Package):	<u>6</u> 73

* Choose one from the three laboratory courses

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

Minor Programme Title

Biology

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:

1.	Required Courses:	
(a)	LSCI1002	3
(b)	BIOL2120, 2210 or 2410	2
(c)	BIOL3560 and 3570 or	4
	BIOL3610 and 3620	
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, 2420, 3012, 3022, 3310, 3410, 3413, 3420, 3510, 3530, 3630, 3710, 4010, 4012, 4032, 4120, 4230, 4260, 4310, 4420, 4510, 4520, 4610	12
	Total:	21

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
BIOL2420	Population Genetics	1
BIOL3510	Palaeobiology	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
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
BIOL4610	Foundation for Secondary School Biology Teaching	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
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