## Biology Applicable to students admitted in 2020-21

<ul> <li>Uni</li> <li>Faculty Package:</li> <li>Group A: LSC11002</li> <li>Group B: CHEM1280 (preferred) or 1070</li> <li>A course from the following</li> <li>Group C: MATH1520 (preferred) or 1010</li> <li>Group D: (PHYS1001 or 1002) (preferred) or 1111</li> <li>Group D: (PHYS1001 or 1002) (preferred) or 1111</li> <li>a. Required Courses:</li> <li>BCHE2030, BIOL2120, 2210, 2410, 2420, 3012, 3022, 3560, 3570, 3610, 3620, 4010, LSCI2002#</li> <li>3. Elective Courses:</li> <li>(a) One laboratory course from BIOL2213, 2313, 3413 and another laboratory course from BIOL4012, 4032, MBTE4033#</li> <li>(b) BCHE3050#, 3080#, 4040#, 4060#, 4090#, 4130#, BIOL3310, 3410, 3420, 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#, 351#, 3521#, 3524#, 3531#, 3550#, 3556#, 3566#, 4320#, 4510#, 4530#, STAT3210# and any course not taken in 3(a).</li> <li>(c) Capstone course (at least 3 units, with a maximum of 7 units): BIOL4901, 4902, 4903, 4906, 4907, LSCI4000#, 4911#, 4912#, 4913#</li> <li>Total: 64[</li> <li>In addition to fulfilling the above Major Programme Requirement, students meeting the crite specified by the Faculty can take the following stream offered by the Faculty:</li> <li>Science, Technology And Research Stream</li> <li>Students are required to complete a minimum of 12 units of courses as follows:</li> <li>1. Required Courses:</li> <li>(a) One Faculty Package Course:</li> <li>(b) Research Courses:</li> <li>(c) One Faculty Package Course:</li> <li>(d) One Faculty Package Course:</li> <li>(e) One Faculty Package Course:</li> <li>(f) Research Courses:</li> <li>(g) One Faculty Package Course:</li> <li>(h) Research Courses:</li> <li>(b) Research Courses:</li> <li>(c) One Faculty Package Course:</li> <li>(c) One Faculty Package Course:</li> <li>(d) One Faculty Package Course:</li> <li>(e) One Faculty Package Course:</li> <li>(f) One Faculty Package Course:</li> <li>(g) One Faculty</li></ul>	Studen	ts are required to complete a minimum of 64[a] units of courses as follows:	
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: 29 BCHE2030, BIOL2120, 2210, 2410, 2420, 3012, 3022, 3560, 3570, 3610, 3620, 4010, LSCI2002# 3. Elective Courses: 26 (a) One laboratory course from BIOL2213, 2313, 3413 and another laboratory course from BIOL4012, 4032, MBTE4033# (b) BCHE3050#, 3080#, 4040#, 4060#, 4090#, 4130#, BIOL3310, 3410, 3420, 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#, 3512#, 3521#, 3521#, 3531#, 3550#, 3568#, 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# <b>Total:</b> 64[ In addition to fulfilling the above Major Programme Requirement, students meeting the crite specified by the Faculty can take the following stream offered by the Faculty: <b>Science, Technology And Research Stream</b> Students are required to complete a minimum of 12 units of courses as follows: 1. Required Courses: 3 Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement (b) Research Courses: 6 STAR2000, 3000, 4000[b] (c) Seminar Courses: 3			Units
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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# <b>Total:</b> 64[ In addition to fulfilling the above Major Programme Requirement, students meeting the crite specified by the Faculty can take the following stream offered by the Faculty: Science, Technology And Research Stream Students are required to complete a minimum of 12 units of courses as follows: 1. Required Courses: (a) One Faculty Package Course: 3 Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement (b) Research Courses: 5TAR2000, 3000, 4000[b] (c) Seminar Courses: 3 Chooses: 3 Choose from the two remaining stream courses as follows: 3 Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement (b) Research Courses: 5 Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement (b) Research Courses: 5 Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement (c) Seminar Courses: 3 Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement (c) Seminar Courses: 3 Choose from the two fulfill the Faculty Package Requirement (c) Seminar Courses: 3 Choose from the faculty Package Requirement (c) Seminar Courses: 3 Choose from the faculty Package Requirement (c) Seminar Courses: 3 Choose faculty Package Requirement (c) Sem			
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<ul> <li>(c) Capstone course (at least 3 units, with a maximum of 7 units): BIOL4901, 4902, 4903, 4906, 4907, LSCI4000#, 4911#, 4912#, 4913#</li> <li>Total: 64[</li> <li>In addition to fulfilling the above Major Programme Requirement, students meeting the crite specified by the Faculty can take the following stream offered by the Faculty:</li> <li>Science, Technology And Research Stream</li> <li>Students are required to complete a minimum of 12 units of courses as follows:         <ul> <li>I. Required Courses:</li> <li>(a) One Faculty Package Course:</li> <li>(b) Research Courses:</li> <li>(c) Seminar Courses:</li> <li>(c) Seminar Courses:</li> </ul> </li> </ul>			
BIOL 4901, 4902, 4903, 4906, 4907, LSCI4000#, 4911#, 4912#, 4913# Total: 64[ In addition to fulfilling the above Major Programme Requirement, students meeting the crite specified by the Faculty can take the following stream offered by the Faculty: Science, Technology And Research Stream Students are required to complete a minimum of 12 units of courses as follows: 1. Required Courses: (a) One Faculty Package Course: (b) Research Courses: (c) Seminar Courses: (c) Seminar Courses: (a) Courses: (b) Research Courses: (c) Seminar Course			
Total:       64[         In addition to fulfilling the above Major Programme Requirement, students meeting the crite specified by the Faculty can take the following stream offered by the Faculty:       Science, Technology And Research Stream         Students are required to complete a minimum of 12 units of courses as follows:       Uni         1.       Required Courses:       Uni         (a)       One Faculty Package Course:       3         Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement       6         (b)       Research Courses:       6         STAR2000, 3000, 4000[b]       3         (c)       Seminar Courses:       3	(c)		
In addition to fulfilling the above Major Programme Requirement, students meeting the crite specified by the Faculty can take the following stream offered by the Faculty: Science, Technology And Research Stream Students are required to complete a minimum of 12 units of courses as follows: 1. Required Courses: (a) One Faculty Package Course: (b) Research Courses: (c) Seminar Courses: (c)		BIOL4901, 4902, 4903, 4906, 4907, LSC14000#, 4911#, 4912#, 4913#	
<ul> <li>specified by the Faculty can take the following stream offered by the Faculty:</li> <li>Science, Technology And Research Stream</li> <li>Students are required to complete a minimum of 12 units of courses as follows:</li> <li>1. Required Courses: <ul> <li>(a) One Faculty Package Course:</li> <li>(b) Research Courses:</li> <li>(c) Seminar Courses:</li> </ul> </li> </ul>		Total:	<b>64</b> [a]
<ul> <li>specified by the Faculty can take the following stream offered by the Faculty:</li> <li>Science, Technology And Research Stream</li> <li>Students are required to complete a minimum of 12 units of courses as follows:</li> <li>1. Required Courses: <ul> <li>(a) One Faculty Package Course:</li> <li>(b) Research Courses:</li> <li>(c) Seminar Courses:</li> </ul> </li> </ul>	In addi	ition to fulfilling the above Major Programme Requirement, students meeting the	he criteria
Students are required to complete a minimum of 12 units of courses as follows:       Uni         1.       Required Courses:       Uni         (a)       One Faculty Package Course:       3         Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement       3         (b)       Research Courses:       6         STAR2000, 3000, 4000[b]       3         (c)       Seminar Courses:       3			
<ul> <li>I. Required Courses:</li> <li>(a) One Faculty Package Course:</li> <li>(b) Research Courses:</li> <li>(c) Seminar Courses:</li> <li>(c) Seminar Courses:</li> <li>(c) Unit Unit Unit Unit Unit Unit Unit Unit</li></ul>	Scienc	e, Technology And Research Stream	
1.       Required Courses:       3         (a)       One Faculty Package Course:       3         Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement       3         (b)       Research Courses:       6         STAR2000, 3000, 4000[b]       3         (c)       Seminar Courses:       3	Studen	ts are required to complete a minimum of 12 units of courses as follows:	<b>T</b> T '/
<ul> <li>(a) One Faculty Package Course: 3</li> <li>Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement</li> <li>(b) Research Courses: 6</li> <li>STAR2000, 3000, 4000[b]</li> <li>(c) Seminar Courses: 3</li> </ul>	1	Required Courses:	Units
Choose from the two remaining groups of the Faculty Package that have not been used to fulfill the Faculty Package Requirement6(b)Research Courses:6STAR2000, 3000, 4000[b]3(c)Seminar Courses:3		•	3
not been used to fulfill the Faculty Package Requirement(b)Research Courses:6STAR2000, 3000, 4000[b]5(c)Seminar Courses:3	(")		C C
(b)         Research Courses:         6           STAR2000, 3000, 4000[b]         6           (c)         Seminar Courses:         3			
(c) Seminar Courses: 3	(b)		6
STAR2050, 3050, 4050	(c)		3
		STAR2050, 3050, 4050	
2. Experiential Learning:	2.	Experiential Learning	

At least 4 consecutive weeks of outside Hong Kong exposure[c]

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 <sup>st</sup> term	
Attendance	Faculty Package: Any one course from MATH1520,	3
	PHYS1001 or 1002, STAT1012	
	Major Required:	
	Major Elective(s):	
	2 <sup>nd</sup> term	
	Faculty Package: LSCI1002, CHEM1280	6
	Major Required:	
	Major Elective(s):	
Second Year of	1 <sup>st</sup> term	
Attendance	Major Required: BCHE2030, BIOL2120, LSCI2002	8
	Major Elective(s):	
	2 <sup>nd</sup> term	
	Major Required: BIOL2210, 2410, 2420, 2213*, 2313*	6-7
	Major Elective(s):	
Third Year of	1 <sup>st</sup> term	
Attendance	Major Required: BIOL3012, 3560, 3610, 3413*, 4010	9-10
	Major Elective(s):	
	2 <sup>nd</sup> 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 <sup>st</sup> term	_
Attendance	Major Capstone: BIOL4902, 4906, 4907, LSCI4000, 4912	0-4
	Major Elective(s): Any two electives	6
	2 <sup>nd</sup> term	
	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

Biology — Scien	nce, Technology And Research Stream (STARS)	
	Recommended Course Pattern	Units
First Year of	1 <sup>st</sup> term	
Attendance	Faculty Package: two courses	6
	Major Required:	
	Major Elective(s):	
	2 <sup>nd</sup> 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	1 <sup>st</sup> term	
Attendance	Major Required: BCHE2030, BIOL2120, LSCI2002	8
	Major Elective(s):	
	STARS : STAR2000 or 3050	1
	2 <sup>nd</sup> term	
	Major Required: BIOL2210, 2410, 2420, 2213*, 2313*	6-7
	Major Elective(s):	
	STARS : STAR2000 (if not taken) or 3050 (if not taken)	1
Third Year of	1 <sup>st</sup> term	
Attendance	Major Required: BIOL3012, 3560, 3610, 3413*, 4010	9-10
	Major Elective(s):	
	STARS : STAR3000 or 4050	1-2
	2 <sup>nd</sup> 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 <sup>st</sup> term	
Attendance	Major Capstone: BIOL4902 <sup>@</sup> , 4906, 4907, LSCI4000	2-4
	Major Elective(s): Any two electives	6
	2 <sup>nd</sup> term	
	Major Capstone: BIOL4903 <sup>@</sup> , LSCI4000 (if not taken)	2-3
	Major Elective(s): Any two electives	6
	Total (including Faculty Package):	73

\* Choose one from the three laboratory courses

<sup>@</sup> 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:

Units

(a)	LSCI1002 DIOL 2120 2210 ar 2410	3
(b) (c)	BIOL2120, 2210 or 2410 BIOL3560 and 3570 or	2 4
(C)	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, 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	
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	
BIOL3510	Palaeobiology	2	
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