

This progression map provides advice on the suitable sequencing of units and guidance on how to plan unit enrolment for each semester of study. It does not substitute for the list of required units as described in the course 'Requirements' section of the Handbook.

S2000 Bachelor of Science

This outline is a guide only. The placement of units may be rearranged to provide flexibility in choice of elective units. The complete course requirements are specified in the University Handbook.

Major: Applied microbiology

YEAR 1

1 st Semester { Sem 2, 2020 }	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2021 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2021 }	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { Sem 1, 2022 }	BTH2830 Fundamentals of microbiology	Science unit – Level 2 or 3	Elective	Elective

YFAR 3

YEAR 3				
1 st Semester	Two units from:		Science unit – Level	Elective
{ Sem 2, 2022 }	BTH3722 Medical mici	robiology	2 or 3	
	BTH3752 Molecular biology and biotechnology SCI3990 Science in action research project			
Summer Semester 2022/2023	SCI1800 Introduction to environmental sustainability Or SCI3800 Science internship (Recommended Elective)			
2 nd Semester	BTH3732	FST3711	Science unit – Level	
{ Sem 1, 2023 }	Environmental microbiology	Food and industrial microbiology	2 or 3	

Α	Science specified study	Notes:
В	Science listed major	No more than two units can normally be credited towards two majors, or a major and a minor. The same unit is not normally credited to two minors.
С	Free elective study	normany created to two minors.

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Major: Biotechnology

YEAR 1

1 st Semester	BIO1022	CHM1051	SCI1020	Elective
{ Sem 2, 2020 }	Life on Earth	Chemistry 1	Introduction to	
		advanced	statistical reasoning	
2 nd Semester	BIO1011	CHM1052	Science unit – Level	Elective
{ Sem 1, 2021 }	Blueprints for life	Chemistry 2	1	
	·	advanced		

YEAR 2

1 st Semester	BTH2732	SCI2010	Elective	Elective
{ Sem 2, 2021 }	Recombinant DNA	Scientific practice		
	technology	and communication		
2 nd Semester	GEN2041	Science unit – Level 2	Elective	Elective
{ Sem 1, 2022 }	Foundations of	or 3		
	genetics			

YEAR 3

ILAN 3				
1 st Semester { Sem 2, 2022 }	Two units from: BTH3752 Molecular biology and biotechnology BTH3820 Plant biotechnology GEN3040 Genomics and its applications SCI3990 Science in action research project		Science unit – Level 2 or 3	Elective
Summer Semester 2022/2023		1800 Introduction to en		-
2 nd Semester { Sem 1, 2023 }	GEN3051 Medical and forensic genetics	SCI3716 Laboratory and workplace management	Science unit – Level 2 or 3	

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Extended major: Biotechnology

YEAR 1

1 st Semester { Sem 2, 2020 }	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2021 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2021 }	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { Sem 1, 2022 }	BTH2741 Biochemistry	BTH2830 Fundamentals of microbiology	GEN2041 Foundations of genetics	Elective

YEAR 3

1 st Semester { Sem 2, 2022 }	Four units from: BTH3722 Medical microbiology BTH3752 Molecular biology and biotechnology BTH3820 Plant biotechnology GEN3040 Genomics and its applications SCI3990 Science in action research project			
Summer Semester 2022/2023	SCI1800 Introduction to environmental sustainability Or SCI3800 Science internship (Recommended Elective)			
2 nd Semester { Sem 1, 2023 }	GEN3051 Medical and forensic genetics	SCI3716 Laboratory and workplace management	Elective	

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Major: Genomics and bioinformatics

YEAR 1

1 st Semester { Sem 2, 2020 }	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2021 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2021 }	SCI2010 Scientific practice and communication	Elective	Elective	Elective
2 nd Semester { Sem 1, 2022 }	GEN2041 Foundations of genetics	Science unit – Level 2 or 3	Science unit – Level 2 or 3	Elective

YEAR 3

1 st Semester { Sem 2, 2022 }	BIN3890 Research methods in bioinformatics and big data analysis	GEN2052 Genomics and population genetics	GEN3040 Genomics and its applications	Science unit – Level 2 or 3
Summer Semester 2022/2023			nvironmental sustainab hip (Recommended Elec	-
2 nd Semester { Sem 1, 2023 }	BIN3800 Bioinformatics	GEN3051 Medical and forensic genetics	SCI3990 Science in action research project (Recommended Elective)	

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Major: Medicinal chemistry

YEAR 1

1 st Semester	BIO1022	CHM1051	SCI1020	Elective
{ Sem 2, 2020 }	Life on Earth	Chemistry 1	Introduction to	
		advanced	statistical reasoning	
2 nd Semester	BIO1011	CHM1052	Science unit – Level	Elective
{ Sem 1, 2021 }	Blueprints for life	Chemistry 2	1	
		advanced		

YEAR 2

1 st Semester { Sem 2, 2021 }	CHM2922 Spectroscopy and analytical chemistry	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { Sem 1, 2022 }	CHM2911 Inorganic and organic chemistry	*PHY2810 Physiology of human body systems or Science unit — Level 2 or 3 (*must complete either PHY2810 or PHY2820)	BTH2741 Biochemistry (Recommended Elective)	Elective

VEAR 3

YEAR 3				
1 st Semester	CHM3922	*PHY2820	Science unit – Level	Science unit – Level
{ Sem 2, 2022 }	Advanced organic	Physiology of human	3	2 or 3
	chemistry	health		
		or Science unit –		
		Level 2 or 3		
		(*must complete either		
		PHY2810 or PHY2820)		
Summer Semester		1800 Introduction to en		•
2022/2023	<u>or</u> s	SCI3800 Science internsh	nip (Recommended Elect	tive)
2 nd Semester	CHM3930	PHA3801	SCI3990	
{ Sem 1, 2023 }	Medicinal chemistry	Principles of	Science in action	
		pharmacology	research project	
			(Recommended	
			Elective)	
			<u> </u>	

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Major: Psychology

YEAR 1

1 st Semester { Sem 2, 2020 }	BIO1022 Life on Earth	PSY1022 Psychology 1B	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester	BIO1011	PSY1011	Science unit – Level	Elective
{ Sem 1, 2021 }	Blueprints for life	Psychology 1A	1	

YEAR 2

1 st Semester	PSY2042	SCI2010	Elective	Elective
{ Sem 2, 2021 }	Personality and social psychology	Scientific practice and communication		
2 nd Semester	PSY2061	PSY2071	Science unit – Level	Elective
{ Sem 1, 2022 }	Biological	Development	2 or 3	
	psychology	psychology		

YEAR 3

TEAN 3				
1 st Semester	PSY3032	Science unit – Level	Science unit – Level	Elective
{ Sem 2, 2022 }	Abnormal	3	2 or 3	
	psychology			
Summer Semester 2022/2023		1800 Introduction to en		<u>-</u>
2 nd Semester	PSY3041	PSY3051	Elective	
{ Sem 1, 2023 }	Psychological testing	Perception and		
	theories of ability	cognitive		
	and ethics	psychology		
]

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Extended major - APAC accredited: Psychology

YEAR 1

,				
1 st Semester	BIO1022	PSY1022	SCI1020	Elective
{ Sem 2, 2020 }	Life on Earth	Psychology 1B	Introduction to	
			statistical reasoning	
2 nd Semester	BIO1011	PSY1011	Science unit – Level	Elective
{ Sem 1, 2021 }	Blueprints for life	Psychology 1A	1	

YEAR 2

1 st Semester	PSY2042	PSY2112	SCI2010 Scientific	Elective
{ Sem 2, 2021 }	Personality and	Organisational	practice and	
	social psychology	psychology	communication	
2 nd Semester	PSY2061	PSY2071	Elective	Elective
{ Sem 1, 2022 }	Biological	Development		
	psychology	psychology		
		1		

YEAR 3

ILANS	3				
1 st Semester	PSY3032	PSY3062	Science unit – Level	Elective	
{ Sem 2, 2022 }	Abnormal	Research methods	2 or 3		
	psychology	and theory			
Summer Semester 2022/2023	SCI1800 Introduction to environmental sustainability Or SCI3800 Science internship (Recommended Elective)				
2 nd Semester	PSY3041	PSY3051	Elective		
{ Sem 1, 2023 }	Psychological testing	Perception and			
	theories of ability	cognitive			
	and ethics	psychology			

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Major: Tropical environmental biology

YFAR 1

LAIN I			
ENV1800	CHM1051	SCI1020	Elective
Environmental	Chemistry 1	Introduction to	
science: A Southeast	advanced	statistical reasoning	
Asian perspective			
BIO1011	CHM1052	Science unit – Level	Elective
Blueprints for life	Chemistry 2	1	
	advanced		
	Environmental science: A Southeast Asian perspective	Environmental Science: A Southeast Asian perspective BIO1011 CHM1052 Chemistry 2	Environmental Science: A Southeast Asian perspective Chemistry 1 Introduction to Statistical reasoning BIO1011 CHM1052 Science unit – Level Blueprints for life Chemistry 2

YFAR 2

1 = - 11 = -				
1 st Semester	ENV2726	STA2216	SCI2010	Elective
{ Sem 2, 2021 }	Ecosystems and	Data analysis for	Scientific practice	
	bioresources	science	and communication	
2 nd Semester	BIO2810	Science unit – Level	Elective	Elective
{ Sem 1, 2022 }	Introduction to	2 or 3		
	ecological			
	applications			

VFAR 3

1 st Semester { Sem 2, 2022 }	BIO3820 Tropical terrestrial biology	Science unit – Level 3	Science unit – Level 2 or 3	Elective
Summer Semester 2022/2023		1800 Introduction to en		•
2 nd Semester { Sem 1, 2023 }	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	SCI3990 Science in action research project (Recommended Elective)	

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Extended major: Tropical environmental biology

YEAR 1

,				
1 st Semester	ENV1800	CHM1051	SCI1020	Elective
{ Sem 2, 2020 }	Environmental	Chemistry 1	Introduction to	
	science: A Southeast	advanced	statistical reasoning	
	Asian perspective			
2 nd Semester	BIO1011	CHM1052	Science unit – Level	Elective
{ Sem 1, 2021 }	Blueprints for life	Chemistry 2	1	
		advanced		

YEAR 2

1 st Semester	ENV2726	STA2216	SCI2010	Elective
{ Sem 2, 2021 }	Ecosystems and	Data analysis for	Scientific practice	
	bioresources	science	and communication	
2 nd Semester	BIO2810	BTH2830	Elective	Elective
{ Sem 1, 2022 }	Introduction to	Fundamentals of		
	ecological	microbiology		
	applications			
	• •			

YFAR 3

LAN 3				
1 st Semester { Sem 2, 2022 }	BIO3820 Tropical terrestrial biology	Science unit – Level 2 or 3	Elective	Elective
Summer Semester 2022/2023			nvironmental sustainabi nip (Recommended Elect	-
2 nd Semester { Sem 1, 2023 }	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	One unit from: BTH3732 Environmental microbiology SCI3990 Science in action research project	

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