Course progression map for July 2024 commencing students

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

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Major: Applied microbiology

YEAR 1

Sem 2, 2024	**BIO1022 Life on Earth**	**CHM1051 Chemistry 1 advanced**	**SCI1020 Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011 Blueprints for life**	**CHM1052 Chemistry 2 advanced**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**BTH2732 Recombinant DNA technology**	**SCI2010 Scientific practice and communication**	Elective	Elective
Sem 1, 2026	**BTH2830 Fundamentals of microbiology**	Science unit – Level 2 or 3	Elective	Elective

YEAR 3

Sem 2, 2026	Two units from: **BTH3722 Medical microbiology** **BTH3752 Molecular biology and biotechnology** **SCI3990 Science in action research project**		Science unit – Level 2 or 3	Elective
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** or **SCI3800 Science internship** *(Recommended Elective)*			
Sem 1, 2027	**BTH3732 Environmental microbiology**	**FST3711 Food and industrial microbiology**	Science unit – Level 2 or 3	

A	Science specified study	Notes: *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.*
B	Science listed major	
C	Free elective study	

Source: Monash University 2024 Handbook - Bachelor of Science
CRICOS Provider Number: 00008C

Updated on 08 December 2023

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S2000 Bachelor of Science

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Major: Biotechnology

YEAR 1

Sem 2, 2024	**BIO1022 Life on Earth**	**CHM1051 Chemistry 1 advanced**	**SCI1020 Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011 Blueprints for life**	**CHM1052 Chemistry 2 advanced**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**BTH2732 Recombinant DNA technology**	**SCI2010 Scientific practice and communication**	Elective	Elective
Sem 1, 2026	**GEN2041 Foundations of genetics**	Science unit – Level 2 or 3	Elective	Elective

YEAR 3

Sem 2, 2026	**<u>One unit from:</u> BTH3752 Molecular biology and biotechnology** **SCI3990 Science in action research project**	Science unit – Level 2 or 3	Science unit – Level 2 or 3	Elective
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** <u>or</u> **SCI3800 Science internship** *(Recommended Elective)*			
Sem 1, 2027	**SCI3716 Laboratory and workplace management**	**GEN3051 Medical and forensic genetics**	**<u>One unit from:</u> BTH3820 Plant biotechnology** **GEN3040 Genomics and its applications** **SCI3990 Science in action research project**	

A	Science specified study	<u>Notes:</u> *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.*
B	Science listed major	
C	Free elective study	

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Course progression map for July 2024 commencing students

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S2000 Bachelor of Science

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Extended major: Biotechnology

YEAR 1

Sem 2, 2024	**BIO1022 Life on Earth**	**CHM1051 Chemistry 1 advanced**	**SCI1020 Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011 Blueprints for life**	**CHM1052 Chemistry 2 advanced**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**BTH2732 Recombinant DNA technology**	**SCI2010 Scientific practice and communication**	Elective	Elective
Sem 1, 2026	**BTH2741 Biochemistry and metabolism of biomolecules**	**BTH2830 Fundamentals of microbiology**	**GEN2041 Foundations of genetics**	Elective

YEAR 3

Sem 2, 2026	**Two units from:** **BTH3722 Medical microbiology** **BTH3752 Molecular biology and biotechnology** **SCI3990 Science in action research project**	Elective	
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** or **SCI3800 Science internship** *(Recommended Elective)*		
Sem 1, 2027	**SCI3716 Laboratory and workplace management**	**Two units from:** **BTH3820 Plant biotechnology** **GEN3040 Genomics and its applications** **SCI3990 Science in action research project**	**GEN3051 Medical and forensic genetics**

A	Science specified study
B	Science listed major
C	Free elective study

Notes:
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.

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Course progression map for July 2024 commencing students

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S2000 Bachelor of Science

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Major: Genomics and bioinformatics

YEAR 1

Sem 2, 2024	**BIO1022 Life on Earth**	**CHM1051 Chemistry 1 advanced**	**SCI1020 Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011 Blueprints for life**	**CHM1052 Chemistry 2 advanced**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**SCI2010 Scientific practice and communication**	Elective	Elective	Elective
Sem 1, 2026	**GEN2041 Foundations of genetics**	Science unit – Level 2 or 3	Science unit – Level 2 or 3	Elective

YEAR 3

Sem 2, 2026	**BIN3890 Research methods in bioinformatics and big data analysis**	**GEN2052 Genomics and population genetics**	Science unit – Level 2 or 3	
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** or **SCI3800 Science internship** *(Recommended Elective)*			
Sem 1, 2027	**BIN3800 Bioinformatics**	**GEN3040 Genomics and its applications**	**GEN3051 Medical and forensic genetics**	**SCI3990 Science in action research project** *(Recommended Elective)*

A	Science specified study	Notes:
B	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.*
C	Free elective study	

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Course progression map for July 2024 commencing students

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S2000 Bachelor of Science

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Major: Medicinal chemistry

YEAR 1

Sem 2, 2024	**BIO1022** **Life on Earth**	**CHM1051** **Chemistry 1 advanced**	**SCI1020** **Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011** **Blueprints for life**	**CHM1052** **Chemistry 2 advanced**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**CHM2922** **Spectroscopy and analytical chemistry**	**SCI2010** **Scientific practice and communication**	Elective	Elective
Sem 1, 2026	**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 and metabolism of biomolecules** (*Recommended Elective*)	Elective

YEAR 3

Sem 2, 2026	**CHM3922** **Advanced organic chemistry**	***PHY2820** **Physiology of human health** or Science unit – Level 2 or 3 (*must complete either PHY2810 or PHY2820)	Science unit – Level 3	Science unit – Level 2 or 3
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** or **SCI3800 Science internship** *(Recommended Elective)*			
Sem 1, 2027	**CHM3930** **Medicinal chemistry**	**PHA3801** **Principles of pharmacology**	**SCI3990** **Science in action research project** *(Recommended Elective)*	

A	Science specified study	Notes: *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.*
B	Science listed major	
C	Free elective study	

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Course progression map for July 2024 commencing students

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S2000 Bachelor of Science

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Major: Psychology

YEAR 1

Sem 2, 2024	**BIO1022 Life on Earth**	**PSY1023 Intro to psychological inquiry**	**SCI1020 Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011 Blueprints for life**	**PSY1011 Foundations in psychology**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**PSY2041 Psychological testing and assessment**	**SCI2010 Scientific practice and communication**	Elective	Elective
Sem 1, 2026	**PSY2061 Biological psychology**	**PSY2071 Development psychology**	Science unit – Level 2 or 3	Elective

YEAR 3

Sem 2, 2026	**PSY3032 Psychological disorders**	**PSY3062 Research methods and theory**	Science unit – Level 2 or 3	Elective
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** or **SCI3800 Science internship** *(Recommended Elective)*			
Sem 1, 2027	**PSY3051 Perception and cognitive psychology**	Science unit – Level 3	Elective	

A	Science specified study	Notes:
B	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.*
C	Free elective study	

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S2000 Bachelor of Science

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Extended major - APAC accredited: Psychology

YEAR 1

Sem 2, 2024	**BIO1022 Life on Earth**	**PSY1023 Intro to psychological inquiry**	**SCI1020 Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011 Blueprints for life**	**PSY1011 Foundations in psychology**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**PSY2042 Personality and social psychology**	**PSY2041 Psychological testing and assessment**	**SCI2010 Scientific practice and communication**	Elective
Sem 1, 2026	**PSY2061 Biological psychology**	**PSY2071 Development psychology**	Elective	Elective

YEAR 3

Sem 2, 2026	**PSY3032 Psychological disorders**	**PSY3062 Research methods and theory**	Science unit – Level 2 or 3	Elective
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** or **SCI3800 Science internship** *(Recommended Elective)*			
Sem 1, 2027	**PSY3051 Perception and cognitive psychology**	**PSY3052 Cultural safety, responsiveness and reflectivity in practice**	Elective	

A	Science specified study	Notes: *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.*
B	Science listed major	
C	Free elective study	

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S2000 Bachelor of Science

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Major: Tropical environmental biology

YEAR 1

Sem 2, 2024	**ENV1800 Environmental science: A Southeast Asian perspective**	**CHM1051 Chemistry 1 advanced**	**SCI1020 Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011 Blueprints for life**	**CHM1052 Chemistry 2 advanced**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**ENV2726 Global conservation and biodiversity**	**STA2216 Data analysis for science**	**SCI2010 Scientific practice and communication**	Elective
Sem 1, 2026	**BIO2810 Introduction to ecological applications**	Science unit – Level 2 or 3	Elective	Elective

YEAR 3

Sem 2, 2026	**BIO3820 Tropical terrestrial biology**	Science unit – Level 3	Science unit – Level 2 or 3	Elective
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** or **SCI3800 Science internship** *(Recommended Elective)*			
Sem 1, 2027	**BIO3800 Tropical environmental management**	**BIO3810 Tropical aquatic biology**	**SCI3990 Science in action research project** *(Recommended Elective)*	

A	Science specified study	Notes:
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C	Free elective study	

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Extended major: Tropical environmental biology

YEAR 1

Sem 2, 2024	**ENV1800 Environmental science: A Southeast Asian perspective**	**CHM1051 Chemistry 1 advanced**	**SCI1020 Introduction to statistical reasoning**	Elective
Sem 1, 2025	**BIO1011 Blueprints for life**	**CHM1052 Chemistry 2 advanced**	Science unit – Level 1	Elective

YEAR 2

Sem 2, 2025	**ENV2726 Global conservation and biodiversity**	**STA2216 Data analysis for science**	**SCI2010 Scientific practice and communication**	Elective
Sem 1, 2026	**BIO2810 Introduction to ecological applications**	**BTH2830 Fundamentals of microbiology**	Elective	Elective

YEAR 3

Sem 2, 2026	**BIO3820 Tropical terrestrial biology**	Science unit – Level 2 or 3	Elective	Elective
Summer Semester 2026/2027	**SCI1800 Introduction to environmental sustainability** or **SCI3800 Science internship** *(Recommended Elective)*			
Sem 1, 2027	**BIO3800 Tropical environmental management**	**BIO3810 Tropical aquatic biology**	**One unit from:** **BTH3732 Environmental microbiology** **SCI3990 Science in action research project**	

A	Science specified study	Notes: *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.*
B	Science listed major	
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