

## Course progression map for July 2023 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

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

Sem 2, 2023	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
Sem 1, 2024	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

##### YEAR 2

Sem 2, 2024	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective
Sem 1, 2025	BTH2830 Fundamentals of microbiology	Science unit – Level 2 or 3	Elective	Elective

##### YEAR 3

Sem 2, 2025	<u>Two units from:</u> <b>BTH3722 Medical microbiology</b>  <b>BTH3752 Molecular biology and biotechnology</b>  <b>SCI3990 Science in action research project</b>		Science unit – Level 2 or 3	Elective
Summer Semester 2025/2026	<b>SCI1800 Introduction to environmental sustainability</b> <u>or</u> <b>SCI3800 Science internship</b> ( <i>Recommended Elective</i> )			
Sem 1, 2026	BTH3732 Environmental microbiology	FST3711 Food and industrial microbiology	Science unit – Level 2 or 3	

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

Source: Monash University Handbook - [Bachelor of Science](#)

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#### Major: Biotechnology

##### YEAR 1

Sem 2, 2023	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
Sem 1, 2024	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

##### YEAR 2

Sem 2, 2024	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective
Sem 1, 2025	GEN2041 Foundations of genetics	Science unit – Level 2 or 3	Elective	Elective

##### YEAR 3

Sem 2, 2025	GEN3051 Medical and forensic genetics	<u>One unit from:</u> BTH3752 Molecular biology and biotechnology  SCI3990 Science in action research project	Science unit – Level 2 or 3	Elective
Summer Semester 2025/2026	SCI1800 Introduction to environmental sustainability or SCI3800 Science internship ( <i>Recommended Elective</i> )			
Sem 1, 2026	SCI3716 Laboratory and workplace management	<u>One unit from:</u> BTH3820 Plant biotechnology  GEN3040 Genomics and its applications  SCI3990 Science in action research project	Science unit – Level 2 or 3	

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### Extended major: Biotechnology

#### YEAR 1

Sem 2, 2023	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
Sem 1, 2024	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

#### YEAR 2

Sem 2, 2024	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective
Sem 1, 2025	BTH2741 Biochemistry and metabolism of biomolecules	BTH2830 Fundamentals of microbiology	GEN2041 Foundations of genetics	Elective

#### YEAR 3

Sem 2, 2025	GEN3051 Medical and forensic genetics	<u>Two units from:</u> BTH3722 Medical microbiology  BTH3752 Molecular biology and biotechnology  SCI3990 Science in action research project	Elective
Summer Semester 2025/2026	SCI1800 Introduction to environmental sustainability <u>or</u> SCI3800 Science internship ( <i>Recommended Elective</i> )		
Sem 1, 2026	SCI3716 Laboratory and workplace management	<u>Two units from:</u> BTH3820 Plant biotechnology  GEN3040 Genomics and its applications  SCI3990 Science in action research project	

A	Science specified study	<b>Notes:</b> 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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## Major: Genomics and bioinformatics

### YEAR 1

Sem 2, 2023	<b>BIO1022</b> Life on Earth	<b>CHM1051</b> Chemistry 1 advanced	<b>SCI1020</b> Introduction to statistical reasoning	Elective
Sem 1, 2024	<b>BIO1011</b> Blueprints for life	<b>CHM1052</b> Chemistry 2 advanced	Science unit – Level 1	Elective

### YEAR 2

Sem 2, 2024	<b>SCI2010</b> Scientific practice and communication	Elective	Elective	Elective
Sem 1, 2025	<b>GEN2041</b> Foundations of genetics	Science unit – Level 2 or 3	Science unit – Level 2 or 3	Elective

### YEAR 3

Sem 2, 2025	<b>BIN3890</b> Research methods in bioinformatics and big data analysis	<b>GEN2052</b> Genomics and population genetics	<b>GEN3051</b> Medical and forensic genetics	Science unit – Level 2 or 3
Summer Semester 2025/2026	<b>SCI1800 Introduction to environmental sustainability</b> <u>or</u> <b>SCI3800 Science internship</b> ( <i>Recommended Elective</i> )			
Sem 1, 2026	<b>BIN3800</b> Bioinformatics	<b>GEN3040</b> Genomics and its applications	<b>SCI3990</b> Science in action research project ( <i>Recommended Elective</i> )	

A	Science specified study	<b>Notes:</b> <i>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.</i>
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#### Major: Medicinal chemistry

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Sem 2, 2023	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
Sem 1, 2024	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

##### YEAR 2

Sem 2, 2024	CHM2922 Spectroscopy and analytical chemistry	SCI2010 Scientific practice and communication	Elective	Elective
Sem 1, 2025	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, 2025	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 2025/2026	SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)			
Sem 1, 2026	CHM3930 Medicinal chemistry	PHA3801 Principles of pharmacology	SCI3990 Science in action research project (Recommended Elective)	

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### S2000 Bachelor of Science

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#### Major: Psychology

##### YEAR 1

Sem 2, 2023	BIO1022 Life on Earth	PSY1023 Intro to psychological inquiry	SCI1020 Introduction to statistical reasoning	Elective
Sem 1, 2024	BIO1011 Blueprints for life	PSY1011 Foundations in psychology	Science unit – Level 1	Elective

##### YEAR 2

Sem 2, 2024	PSY2041 Psychological testing and assessment	SCI2010 Scientific practice and communication	Elective	Elective
Sem 1, 2025	PSY2061 Biological psychology	PSY2071 Development psychology	Science unit – Level 2 or 3	Elective

##### YEAR 3

Sem 2, 2025	PSY3032 Psychological disorders	PSY3062 Research methods and theory	Science unit – Level 2 or 3	Elective
Summer Semester 2025/2026	SCI1800 Introduction to environmental sustainability <u>or</u> SCI3800 Science internship ( <i>Recommended Elective</i> )			
Sem 1, 2026	PSY3051 Perception and cognitive psychology	Science unit – Level 3	Elective	

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### Extended major - APAC accredited: Psychology

#### YEAR 1

Sem 2, 2023	BIO1022 Life on Earth	PSY1023 Intro to psychological inquiry	SCI1020 Introduction to statistical reasoning	Elective
Sem 1, 2024	BIO1011 Blueprints for life	PSY1011 Foundations in psychology	Science unit – Level 1	Elective

#### YEAR 2

Sem 2, 2024	PSY2042 Personality and social psychology	PSY2041 Psychological testing and assessment	SCI2010 Scientific practice and communication	Elective
Sem 1, 2025	PSY2061 Biological psychology	PSY2071 Development psychology	Elective	Elective

#### YEAR 3

Sem 2, 2025	PSY3032 Psychological disorders	PSY3062 Research methods and theory	Science unit – Level 2 or 3	Elective
Summer Semester 2025/2026	SCI1800 Introduction to environmental sustainability <u>or</u> SCI3800 Science internship ( <i>Recommended Elective</i> )			
Sem 1, 2026	PSY3051 Perception and cognitive psychology	PSY3052 Cultural safety, responsiveness and reflectivity in practice	Elective	

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#### Major: Tropical environmental biology

##### YEAR 1

Sem 2, 2023	ENV1800 Environmental science: A Southeast Asian perspective	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
Sem 1, 2024	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

##### YEAR 2

Sem 2, 2024	ENV2726 Global conservation and biodiversity	STA2216 Data analysis for science	SCI2010 Scientific practice and communication	Elective
Sem 1, 2025	BIO2810 Introduction to ecological applications	Science unit – Level 2 or 3	Elective	Elective

##### YEAR 3

Sem 2, 2025	BIO3820 Tropical terrestrial biology	Science unit – Level 3	Science unit – Level 2 or 3	Elective
Summer Semester 2025/2026	SCI1800 Introduction to environmental sustainability or SCI3800 Science internship ( <i>Recommended Elective</i> )			
Sem 1, 2026	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	SCI3990 Science in action research project ( <i>Recommended Elective</i> )	

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#### Extended major: Tropical environmental biology

##### YEAR 1

Sem 2, 2023	ENV1800 Environmental science: A Southeast Asian perspective	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
Sem 1, 2024	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

##### YEAR 2

Sem 2, 2024	ENV2726 Global conservation and biodiversity	STA2216 Data analysis for science	SCI2010 Scientific practice and communication	Elective
Sem 1, 2025	BIO2810 Introduction to ecological applications	BTH2830 Fundamentals of microbiology	Elective	Elective

##### YEAR 3

Sem 2, 2025	BIO3820 Tropical terrestrial biology	Science unit – Level 2 or 3	Elective	Elective
Summer Semester 2025/2026	SCI1800 Introduction to environmental sustainability or SCI3800 Science internship ( <i>Recommended Elective</i> )			
Sem 1, 2026	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	One unit from: BTH3732 Environmental microbiology  SCI3990 Science in action research project	

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