

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

YEAR 2

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

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)				
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YEAR 3

Sem 1, 2025	BTH3732 Environmental microbiology	FST3711 Food and industrial microbiology	Science unit – Level 2 or 3	Elective
Sem 2, 2025	<u>Two units from:</u> BTH3722 Medical microbiology BTH3752 Molecular biology and biotechnology SCI3990 Science in action research project		Science unit – Level 2 or 3	

A	Science specified study	Notes: <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 1, 2023	BIO1011 Blueprints for life	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
Sem 2, 2023	BIO1022 Life on Earth	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

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

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)				
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YEAR 3

Sem 1, 2025	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	Elective
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	

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Extended Major: Biotechnology

YEAR 1

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

YEAR 2

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

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)				
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YEAR 3

Sem 1, 2025	SCI3716 Laboratory and workplace management	<u>Two units from:</u> BTH3820 Plant biotechnology GEN3040 Genomics and its applications SCI3990 Science in action research project	Elective
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	

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Course progression map for February 2023 commencing students

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Major: Genomics and bioinformatics

YEAR 1

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

YEAR 2

Sem 1, 2024	GEN2041 Foundations of genetics	Elective	Elective	Elective
Sem 2, 2024	GEN2052 Genomics and population genetics	SCI2010 Scientific practice and communication	Science unit – Level 2 or 3	Science unit – Level 2 or 3

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)				
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YEAR 3

Sem 1, 2025	BIN3800 Bioinformatics	GEN3040 Genomics and its applications	Science unit – Level 2 or 3	Elective
Sem 2, 2025	BIN3890 Research methods in bioinformatics and big data analysis	GEN3051 Medical and forensic genetics	SCI3990 Science in action research project (<i>Recommended Elective</i>)	

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Major: Medicinal chemistry

YEAR 1

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

YEAR 2

Sem 1, 2024	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
Sem 2, 2024	CHM2922 Spectroscopy and analytical chemistry	*PHY2820 Physiology of human health or Science unit – Level 2 or 3 (*must complete either PHY2810 or PHY2820)	SCI2010 Scientific practice and communication	Elective

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)				
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YEAR 3

Sem 1, 2025	CHM3930 Medicinal chemistry	PHA3801 Principles of pharmacology	Science unit – Level 2 or 3	Elective
Sem 2, 2025	CHM3922 Advanced organic chemistry	Science unit – Level 3	SCI3990 Science in action research project (Recommended Elective)	

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Major: Psychology

YEAR 1

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

YEAR 2

Sem 1, 2024	PSY2061 Biological psychology	PSY2071 Developmental psychology	Elective	Elective
Sem 2, 2024	PSY2041 Psychological testing and assessment	SCI2010 Scientific practice and communication	Elective	Elective

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)				
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YEAR 3

Sem 1, 2025	PSY3051 Perception and cognitive psychology	Science unit – Level 3	Science unit – Level 2 or 3	Elective
Sem 2, 2025	PSY3032 Psychological disorders	PSY3062 Research methods and theory	Science unit – Level 2 or 3	

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Extended Major: Psychology

YEAR 1

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

YEAR 2

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

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)				
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YEAR 3

Sem 1, 2025	PSY3051 Perception and cognitive psychology	PSY3052 Cultural safety, responsiveness and reflectivity in practice	Science unit – Level 2 or 3	Elective
Sem 2, 2025	PSY3032 Psychological disorders	PSY3062 Research methods and theory	Elective	

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Major: Tropical environmental biology

This outline is a guide only. The complete course requirements are specified in the University Handbook.

YEAR 1

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

YEAR 2

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

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)				
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YEAR 3

Sem 1, 2025	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	Science unit – Level 2 or 3	Elective
Sem 2, 2025	BIO3820 Tropical terrestrial biology	Science unit – Level 3	SCI3990 Science in action research project (Recommended Elective)	

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Extended Major: Tropical environmental biology

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YEAR 1

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

YEAR 2

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

SUMMER SEMESTER 2024/2025

SCI1800 Introduction to environmental sustainability <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)				
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YEAR 3

Sem 1, 2025	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	BTH3732 Environmental microbiology	Elective
Sem 2, 2025	BIO3820 Tropical terrestrial biology	Science unit – Level 2 or 3	SCI3990 Science in action research project (<i>Recommended Elective</i>)	

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