

Course progression map for July 2022 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

1 st Semester { Sem 2, 2022 }	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { Sem 1, 2024 }	BTH2830 Fundamentals of microbiology	Science unit – Level 2 or 3	Elective	Elective

YEAR 3

1 st Semester { Sem 2, 2024 }	<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	Elective
Summer Semester 2024/2025	SCI1800 Introduction to environmental sustainability <u>or</u> SCI3800 Science internship (Recommended Elective)			
2 nd Semester { Sem 1, 2025 }	BTH3732 Environmental microbiology	FST3711 Food and industrial microbiology	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 2022 Handbook - <https://handbook.monash.edu/2022/courses/S2000?year=2022>

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Major: Biotechnology

YEAR 1

1 st Semester { Sem 2, 2022 }	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { Sem 1, 2024 }	GEN2041 Foundations of genetics	Science unit – Level 2 or 3	Elective	Elective

YEAR 3

1 st Semester { Sem 2, 2024 }	GEN3051 Medical and forensic genetics	One unit from: BTH3752 Molecular biology and biotechnology SCI3990 Science in action research project	Science unit – Level 2 or 3	Elective
Summer Semester 2024/2025	SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)			
2 nd Semester { Sem 1, 2025 }	SCI3716 Laboratory and workplace management	One unit from: 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

1 st Semester { Sem 2, 2022 }	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { Sem 1, 2024 }	BTH2741 Biochemistry and metabolism of biomolecules	BTH2830 Fundamentals of microbiology	GEN2041 Foundations of genetics	Elective

YEAR 3

1 st Semester { Sem 2, 2024 }	GEN3051 Medical and forensic genetics	Two units from: BTH3722 Medical microbiology BTH3752 Molecular biology and biotechnology SCI3990 Science in action research project	Elective
Summer Semester 2024/2025	SCI1800 Introduction to environmental sustainability <u>OR</u> SCI3800 Science internship (<i>Recommended Elective</i>)		
2 nd Semester { Sem 1, 2025 }	SCI3716 Laboratory and workplace management	Two units from: BTH3820 Plant biotechnology GEN3040 Genomics and its applications SCI3990 Science in action research project	

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Major: Genomics and bioinformatics

YEAR 1

1 st Semester { Sem 2, 2022 }	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	SCI2010 Scientific practice and communication	Elective	Elective	Elective
2 nd Semester { Sem 1, 2024 }	GEN2041 Foundations of genetics	Science unit – Level 2 or 3	Science unit – Level 2 or 3	Elective

YEAR 3

1 st Semester { Sem 2, 2024 }	BIN3890 Research methods in bioinformatics and big data analysis	GEN2052 Genomics and population genetics	GEN3051 Medical and forensic genetics	Science unit – Level 2 or 3
Summer Semester 2024/2025	SCI1800 Introduction to environmental sustainability OR SCI3800 Science internship (<i>Recommended Elective</i>)			
2 nd Semester { Sem 1, 2025 }	BIN3800 Bioinformatics	GEN3040 Genomics and its applications	SCI3990 Science in action research project (<i>Recommended Elective</i>)	

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Major: Medicinal chemistry

YEAR 1

1 st Semester { Sem 2, 2022 }	BIO1022 Life on Earth	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	CHM2922 Spectroscopy and analytical chemistry	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { 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

YEAR 3

1 st Semester { Sem 2, 2024 }	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 2024/2025	SCI1800 Introduction to environmental sustainability or SCI3800 Science internship (Recommended Elective)			
2 nd Semester { Sem 1, 2025 }	CHM3930 Medicinal chemistry	PHA3801 Principles of pharmacology	SCI3990 Science in action research project (Recommended Elective)	

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Major: Psychology

YEAR 1

1 st Semester { Sem 2, 2022 }	BIO1022 Life on Earth	PSY1022 Psychology 1B	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	PSY1011 Psychology 1A	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	PSY2042 Personality and social psychology	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { Sem 1, 2024 }	PSY2061 Biological psychology	PSY2071 Development psychology	Science unit – Level 2 or 3	Elective

YEAR 3

1 st Semester { Sem 2, 2024 }	PSY3032 Abnormal psychology	Science unit – Level 3	Science unit – Level 2 or 3	Elective
Summer Semester 2024/2025	SCI1800 Introduction to environmental sustainability OR SCI3800 Science internship (Recommended Elective)			
2 nd Semester { Sem 1, 2025 }	PSY3041 Psychological testing theories of ability and ethics	PSY3051 Perception and cognitive psychology	Elective	

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Extended major - APAC accredited: Psychology

YEAR 1

1 st Semester { Sem 2, 2022 }	BIO1022 Life on Earth	PSY1022 Psychology 1B	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	PSY1011 Psychology 1A	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	PSY2042 Personality and social psychology	PSY2112 Organisational psychology	SCI2010 Scientific practice and communication	Elective
2 nd Semester { Sem 1, 2024 }	PSY2061 Biological psychology	PSY2071 Development psychology	Elective	Elective

YEAR 3

1 st Semester { Sem 2, 2024 }	PSY3032 Abnormal psychology	PSY3062 Research methods and theory	Science unit – Level 2 or 3	Elective
Summer Semester 2024/2025	SCI1800 Introduction to environmental sustainability <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)			
2 nd Semester { Sem 1, 2025 }	PSY3041 Psychological testing theories of ability and ethics	PSY3051 Perception and cognitive psychology	Elective	

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Major: Tropical environmental biology

YEAR 1

1 st Semester { Sem 2, 2022 }	ENV1800 Environmental science: A Southeast Asian perspective	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	ENV2726 Ecosystems and bioresources	STA2216 Data analysis for science	SCI2010 Scientific practice and communication	Elective
2 nd Semester { Sem 1, 2024 }	BIO2810 Introduction to ecological applications	Science unit – Level 2 or 3	Elective	Elective

YEAR 3

1 st Semester { Sem 2, 2024 }	BIO3820 Tropical terrestrial biology	Science unit – Level 3	Science unit – Level 2 or 3	Elective
Summer Semester 2024/2025	SCI1800 Introduction to environmental sustainability OR SCI3800 Science internship (Recommended Elective)			
2 nd Semester { Sem 1, 2025 }	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 { Sem 2, 2022 }	ENV1800 Environmental science: A Southeast Asian perspective	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 1, 2023 }	BIO1011 Blueprints for life	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 2, 2023 }	ENV2726 Ecosystems and bioresources	STA2216 Data analysis for science	SCI2010 Scientific practice and communication	Elective
2 nd Semester { Sem 1, 2024 }	BIO2810 Introduction to ecological applications	BTH2830 Fundamentals of microbiology	Elective	Elective

YEAR 3

1 st Semester { Sem 2, 2024 }	BIO3820 Tropical terrestrial biology	Science unit – Level 2 or 3	Elective	Elective
Summer Semester 2024/2025	SCI1800 Introduction to environmental sustainability OR SCI3800 Science internship (<i>Recommended Elective</i>)			
2 nd Semester { Sem 1, 2025 }	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	One unit from: BTH3732 Environmental microbiology SCI3990 Science in action research project	

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