

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

YEAR 2

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

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

1 st Semester { Sem 1, 2022 }	BTH3732 Environmental microbiology	FST3711 Food and industrial microbiology	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2022 }	<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 2020 Handbook - <https://handbook.monash.edu/2020/courses/S2000>

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Major: Biotechnology

YEAR 1

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

YEAR 2

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

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YEAR 3

1 st Semester { Sem 1, 2022 }	GEN3051 Medical and forensic genetics	SCI3716 Laboratory and workplace management	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2022 }	<u>Two units from:</u> 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	

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Extended Major: Biotechnology

YEAR 1

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

YEAR 2

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

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YEAR 3

1 st Semester { Sem 1, 2022 }	GEN3051 Medical and forensic genetics	SCI3716 Laboratory and workplace management	Elective
2 nd 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		

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Major: Genomics and bioinformatics

YEAR 1

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

YEAR 2

1 st Semester { Sem 1, 2021 }	GEN2041 Foundations of genetics	SCI2010 Scientific practice and communication	Elective	Elective
2 nd Semester { Sem 2, 2021 }	GEN2052 Genomics and population genetics	Science unit – Level 2 or 3	Science unit – Level 2 or 3	Elective

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YEAR 3

1 st Semester { Sem 1, 2022 }	BIN3800 Bioinformatics	GEN3051 Medical and forensic genetics	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2022 }	BIN3890 Research methods in bioinformatics and big data analysis	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 1, 2020 }	BIO1011 Blueprints for life	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2020 }	BIO1022 Life on Earth	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2021 }	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
2 nd Semester { Sem 2, 2021 }	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

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

1 st Semester { Sem 1, 2022 }	CHM3930 Medicinal chemistry	PHA3801 Principles of pharmacology	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2022 }	CHM3922 Advanced organic chemistry	Science unit – Level 3	SCI3990 Science in action research project (Recommended Elective)	

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Major: Psychology

YEAR 1

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

YEAR 2

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

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

1 st Semester { Sem 1, 2022 }	PSY3041 Psychological testing theories of ability and ethics	PSY3051 Perception and cognitive psychology	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2022 }	PSY3032 Abnormal psychology	Science unit – Level 3	Science unit – Level 2 or 3	

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Extended Major: Psychology

YEAR 1

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

YEAR 2

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

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YEAR 3

1 st Semester { Sem 1, 2022 }	PSY3041 Psychological testing theories of ability and ethics	PSY3051 Perception and cognitive psychology	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2022 }	PSY3032 Abnormal psychology	PSY3062 Research methods and theory	Elective	

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Major: Tropical environmental biology

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YEAR 1

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

YEAR 2

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

SUMMER SEMESTER 2021/2022

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

1 st Semester { Sem 1, 2022 }	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2022 }	BIO3820 Tropical terrestrial biology	Science unit – Level 3	SCI3990 Science in action research project (<i>Recommended Elective</i>)	

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Extended Major: Tropical environmental biology

YEAR 1

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

YEAR 2

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

SUMMER SEMESTER 2021/2022

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

YEAR 3

1 st Semester { Sem 1, 2022 }	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	BTH3732 Environmental microbiology	Elective
2 nd Semester { Sem 2, 2022 }	BIO3820 Tropical terrestrial biology	Science unit – Level 2 or 3	SCI3990 Science in action research project (<i>Recommended Elective</i>)	

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