

Course progression map for February 2019 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.

Bachelor of Science - Major: Applied microbiology

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

YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011 Blueprints for life	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	BIO1022 Life on Earth	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	BTH2830 Fundamentals of microbiology	Science unit – Level 2 or 3	Elective	Elective
2 nd Semester { Sem 2, 2020 }	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective

SUMMER SEMESTER 2020/2021

SCI1800 The sustainable planet <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)

YEAR 3

1 st Semester { Sem 1, 2021 }	BTH3732 Environmental microbiology	FST3711 Food and industrial microbiology	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2021 }	<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 2019 Handbook - <http://monash.edu/pubs/2019handbooks/aos/applied-microbiology/>

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Bachelor of Science - Major: Biotechnology

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YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011 Blueprints for life	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	BIO1022 Life on Earth	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	GEN2041 Foundations of genetics	Science unit – Level 2 or 3	Elective	Elective
2 nd Semester { Sem 2, 2020 }	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective

SUMMER SEMESTER 2020/2021

SCI1800 The sustainable planet <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)

YEAR 3

1 st Semester { Sem 1, 2021 }	GEN3051 Medical and forensic genetics	SCI3716 Laboratory and workplace management	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2021 }	Two units from: 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	

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 2018 Handbook - <http://monash.edu/pubs/2019handbooks/aos/biotechnology/ug-sci-biotechnology.html>

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Bachelor of Science – Extended Major: Biotechnology

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

YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011 Blueprints for life	CHM1051 Chemistry 2 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	BIO1022 Life on Earth	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	BTH2741 Biochemistry	BTH2830 Fundamentals of microbiology	GEN2041 Foundations of genetics	Elective
2 nd Semester { Sem 2, 2020 }	BTH2732 Recombinant DNA technology	SCI2010 Scientific practice and communication	Elective	Elective

SUMMER SEMESTER 2020/2021

SCI1800 The sustainable planet <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)

YEAR 3

1 st Semester { Sem 1, 2021 }	GEN3051 Medical and forensic genetics	SCI3716 Laboratory and workplace management	Elective
2 nd Semester { Sem 2, 2021 }	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		

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 2018 Handbook - <http://monash.edu/pubs/2019handbooks/aos/biotechnology/ug-sci-biotechnology.html>

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Bachelor of Science - Major: Genomics and bioinformatics

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

YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011 Blueprints for life	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	BIO1022 Life on Earth	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	GEN2041 Foundations of genetics	Science unit – Level 2 or 3	Elective	Elective
2 nd Semester { Sem 2, 2020 }	GEN2052 Genomics and population genetics	SCI2010 Scientific practice and communication	Science unit – Level 2 or 3	Elective

SUMMER SEMESTER 2020/2021

SCI1800 The sustainable planet <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)

YEAR 3

1 st Semester { Sem 1, 2021 }	BIN3800 Bioinformatics	GEN3051 Medical and forensic genetics	SCI3990 Science in action research project (<i>Recommended Elective</i>)	Elective
2 nd Semester { Sem 2, 2021 }	BIN3890 Bioinformatics and big data	GEN3040 Genomics and its applications	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 2018 Handbook - <http://monash.edu/pubs/2019handbooks/aos/genomics-and-bioinformatics/>
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Bachelor of Science - Major: Medicinal chemistry

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

YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011 Blueprints for life	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	BIO1022 Life on Earth	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	CHM2911 Inorganic and organic chemistry	*PHY2810 Physiology of human body systems or Science unit – Level 2 or 3 (*must complete either PHY2810 or PHY2820)	Elective	Elective
2 nd Semester { Sem 2, 2020 }	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 2020/2021

SCI1800 The sustainable planet or SCI3800 Science internship (<i>Recommended Elective</i>)
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YEAR 3

1 st Semester { Sem 1, 2021 }	CHM3930 Medicinal chemistry	PHA3801 Principles of pharmacology	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2021 }	CHM3922 Advanced organic chemistry	Science unit – Level 3	SCI3990 Science in action research project (<i>Recommended Elective</i>)	

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 2019 Handbook - <http://monash.edu/pubs/2019handbooks/aos/medicinal-chemistry/ug-sci-medicinal-chemistry.html>
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Bachelor of Science - Major: Psychology

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

YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011 Blueprints for life	PSY1011 Psychology 1A	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	BIO1022 Life on Earth	PSY1022 Psychology 1B	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	PSY2061 Biological psychology	PSY2071 Developmental psychology	Elective	Elective
2 nd Semester { Sem 2, 2020 }	PSY2042 Personality and social psychology	SCI2010 Scientific practice and communication	Elective	Elective

SUMMER SEMESTER 2020/2021

SCI1800 The sustainable planet <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)

YEAR 3

1 st Semester { Sem 1, 2021 }	PSY3041 Psychological testing theories of ability and ethics	PSY3051 Perception and cognition	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2021 }	PSY3032 Abnormal psychology	Science unit – Level 3	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 2018 Handbook - <http://www.monash.edu.au/pubs/2019handbooks/aos/psychology/ug-med-psychology.html>
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Bachelor of Science – Extended Major: Psychology

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

YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011	PSY1011 Psychology 1A	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	BIO1022 Life on Earth	PSY1022 Psychology 1B	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	PSY2061 Biological psychology	PSY2071 Developmental psychology	Elective	Elective
2 nd Semester { Sem 2, 2020 }	PSY2042 Personality and social psychology	PSY2112 Organisational psychology	SCI2010 Scientific practice and communication	Elective

SUMMER SEMESTER 2020/2021

SCI1800 The sustainable planet <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)

YEAR 3

1 st Semester { Sem 1, 2021 }	PSY3041 Psychological testing theories of ability and ethics	PSY3051 Perception and cognition	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2021 }	PSY3032 Abnormal psychology	PSY3062 Research methods and theory	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	

Source: Monash University 2018 Handbook - <http://www.monash.edu.au/pubs/2019handbooks/aos/psychology/ug-med-psychology.html>
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Bachelor of Science - Major: Tropical environmental biology

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

YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011 Blueprints for life	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	ENV1800 Environmental science: A Southeast Asian perspective	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	BIO2810 Tropical ecology	Science unit – Level 2 or 3	Elective	Elective
2 nd Semester { Sem 2, 2020 }	ENV2726 Ecosystems and bioresources	STA2216 Data analysis for science	SCI2010 Scientific practice and communication	Elective

SUMMER SEMESTER 2020/2021

SCI1800 The sustainable planet <i>or</i> SCI3800 Science internship (<i>Recommended Elective</i>)

YEAR 3

1 st Semester { Sem 1, 2021 }	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	Science unit – Level 2 or 3	Elective
2 nd Semester { Sem 2, 2021 }	BIO3820 Tropical terrestrial biology	Science unit – Level 3	SCI3990 Science in action research project (<i>Recommended Elective</i>)	

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 2018 Handbook - <http://monash.edu/pubs/2019handbooks/aos/tropical-environmental-biology/ug-sci-tropical-environmental-biology.html>

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Bachelor of Science – Extended Major: Tropical environmental biology

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

YEAR 1

1 st Semester { Sem 1, 2019 }	BIO1011 Blueprints for life	CHM1051 Chemistry 1 advanced	SCI1020 Introduction to statistical reasoning	Elective
2 nd Semester { Sem 2, 2019 }	ENV1800 Environmental science: A Southeast Asian perspective	CHM1052 Chemistry 2 advanced	Science unit – Level 1	Elective

YEAR 2

1 st Semester { Sem 1, 2020 }	BIO2810 Tropical ecology	BTH2830 Fundamentals of microbiology	Elective	Elective
2 nd Semester { Sem 2, 2020 }	ENV2726 Ecosystems and bioresources	STA2216 Data analysis for science	SCI2010 Scientific practice and communication	Elective

SUMMER SEMESTER 2020/2021

SCI1800 The sustainable planet <u>or</u> SCI3800 Science internship (<i>Recommended Elective</i>)

YEAR 3

1 st Semester { Sem 1, 2021 }	BIO3800 Tropical environmental management	BIO3810 Tropical aquatic biology	BTH3732 Environmental microbiology	Elective
2 nd Semester { Sem 2, 2021 }	BIO3820 Tropical terrestrial biology	Science unit – Level 2 or 3	SCI3990 Science in action research project (<i>Recommended Elective</i>)	

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 2018 Handbook - <http://monash.edu/pubs/2019handbooks/aos/tropical-environmental-biology/ug-sci-tropical-environmental-biology.html>
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