Science

Bachelor of Life Science (3966) - Handbook

2022 Commencing Students
Program Structure

Single Degree Mode

PROGRAM STRUCTURE				
	An approved Major	96 UOC (16 courses)	96 UOC	144 UOC
	Science Electives			
	Free Electives	36 UOC (6 courses)	48 UOC	
	General Education	12 UOC (2 courses)		

Science Electives are courses taken from within the Faculty of Science or as defined here

Free Electives are courses from any Faculty at UNSW including Science, but cannot be GEN-branded courses

General Education must taken from courses that are not considered Science Electives

Science students cannot take GENS courses under any circumstance

Students in Single Degree Mode cannot complete more than 72 UoC of Level 1 courses including any GEN courses and Level 1 courses taken for General Education.

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Science

Bachelor of Life Science (3966)

2022 Commencing Students

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Marine and Coastal Science	10
Microbiology	11
Molecular and Cell Biology	12
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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Anatomy (ANATA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BIOS1101 Evolutionary and Functional Biology (T2)	6 UOC SCI Elective
6 UOC Mathematics Level 1 Core (See notes 1)	6 UOC Free Elective	6 UOC Free Elective
CHEM1011 Chemistry 1A (T1, T2, T3) Or CHEM1031 Higher Chemistry 1A (T1)	6 UOC Free Elective	

Year 2		
ANAT2111 Introductory Anatomy (T1, T2)	ANAT2241 Histology: Basic and Systematic (T2)	6 UOC Free Elective
6 UOC Level 2 Prescribed Electives (See notes 2)	6 UOC Level 2 Prescribed Electives (See notes 2)	6 UOC General Education
6 UOC SCI Elective	6 UOC General Education	

Year 3		
6 UOC Level 3 Prescribed Electives (See notes 3)	6 UOC Level 3 Prescribed Electives (See notes 3)	6 UOC Level 3 Prescribed Electives (See notes 3)
6 UOC Level 3 Prescribed Electives (See notes 3)	6 UOC SCI Elective	6 UOC SCI Elective
6 UOC SCI Elective	6 UOC SCI Elective	

NOTES

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See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.

Note 1: Mathematics Level 1 Core: MATH1041 (T1, T2, T3) or MATH1031 (T1, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3) or MATH1151 (T1)
Note 2: Level 2 Prescribed Electives : ANAT2341 (T3), ANAT2521 (Summer, T2), PATH2201(T3), PHSL2101 (T1), PHSL2201 (T2)
Note 3: Level 3 Prescribed Electives : ANAT3121 (T1), ANAT3131 (T2), ANAT3141 (T3), ANAT3411 (T1), NEUR3211 (T3), SOMS3232 (T3)
Science Electives: See Handbook

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Biological Chemistry (CHEMJ1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	CHEM1021 Chemistry 1B: Elements, Compounds and Life (T1, T2, T3)	6 UOC Science Elective
CHEM1011 Chemistry 1A: Atoms, Molecules and Energy (T1, T2, T3)	6 UOC Science Elective	6 UOC Free Elective
MATH1031 (T1, 3) or MATH1041 (T1, T2, T3)	6 UOC General Education	

Year 2		
CHEM2041 Analytical Chemistry: Essential Methods (T1, T3)	CHEM2021 Organic Chemistry: Mechanisms and Biomolecules (T2)	CHEM2031 Inorganic Chemistry: The Elements (T3)
6 UOC Science Elective	BIOC2101 (T2) or BIOC2181 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
6 UOC General Education	6 UOC Free Elective	

Year 3		
CHEM3021 Organic Chemistry: Modern Synthetic Strategies (T1)	6 UOC Level 3 Prescribed Elective (See Note 1)	CHEM3901 Environmental Toxicology (T3)
6 UOC Science Elective	6 UOC Free Elective	6 UOC Free Elective
6 UOC Free Elective	6 UOC Free Elective	

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Note 1: Any Level 3 CHEM, BIOC or BABS course (Recommended: CHEM6041)

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Biology (BIOSJ1)

Choose from available proposed courses in each year

Year 1		
BIOS1301 Ecology, Sustainability and Environmental Science (T1)	BIOS1101 Evolutionary and Functional Biology (T2)	BEES1041 Exploring the Natural World (T3)
BABS1201 Molecules, Cells and Genes (T1, T3)	MATH1041 Stats for Life & Social Sciences (T1, T2, T3)	6 UOC Science Elective
6 UOC Free Elective	6 UOC Free Elective	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	6 UOC Level 2 Prescribed Elective (See Note 1)	6 UOC Level 2 Prescribed Elective (See Note 1)
6 UOC Level 2 Prescribed Elective (See Note 1)	6 UOC Science Elective	6 UOC Free Elective
6 UOC Free Elective	6 UOC General Education	

Year 3		
BIOS3171 Evolution (T3)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Level 3 Prescribed Elective (See Note 2)
6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC Free Elective
6 UOC Free Elective	6 UOC General Education	

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Note 1: Level 2 Prescribed Electives: BIOS2011 (T1), BIOS2500 (T2), BIOS2061 (T2), BIOS2031 (T3), BIOS2051 (T3), BIOS2123 (T3),
Note 2: Level 3 Prescribed Electives: GEOS3911 (T1), BIOS3601 (T1), BIOS3081 (T1), BIOS6723 (T2), BEES3041 (T2), BIOS3011 (T2), BIOS3061 (T2), BIOS3161 (T2), BIOS3221 (T3), BIOS6671 (T3)

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Biotechnology (BIOTA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BABS1202 Applied Biomolecular Sciences (T2)	6 UOC Science Elective
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	CHEM1021 (T1, T2, T3) or CHEM1041 (T2)	6 UOC General Education
MATH1031 (T1, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3)	MATH1041 (T1, T2, T3) or MATH1231 (T1, T2, T3) or MATH1241 (T1, T2)	

Year 2		
BABS2011 Current Trends in Biotechnology (T1)	BIOC2101 Principles of Biochemistry (Advanced) (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
MICR2011 Microbiology 1 (T1)	6 UOC Science Elective	6 UOC Free Elective
6 UOC General Education	6 UOC Free Elective	

Year 3		
BABS3071 Commercial Biotechnology (T1)	BABS3031 Biotechnology and Bioengineering (T2)	BABS3061 Medical Biotechnology (T3)
6 UOC Free Elective	6 UOC Free Elective	BABS3200 Synthetic Biology (T3)
6 UOC Free Elective	6 UOC Free Elective	

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Ecology (BIOSG1)

Choose from available proposed courses in each year

Year 1		
BIOS1301 Ecology, Sustainability & Environmental Science (T1)	GEOS1701 Environmental Systems, Processes & Issues (T2)	BEES1041 Exploring the Natural World (T3)
MATH1041 Stats for Life & Social Sciences (T1, T2, T3)	BIOS1101 Evolutionary & Functional Biology (T2)	6 UOC BABS****
6 UOC Free Elective	6 UOC Free Elective	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	GEOS2711 Australian Climate and Vegetation (T2)	6 UOC Level 2 Prescribed Elective (See Notes 1)
BIOS2011 Evolutionary and Physiological Ecology (T1)	6 UOC Science Elective	6 UOC Free Elective
6 UOC Free Elective	6 UOC General Education	

Year 3		
BIOS3601 Advanced Field Biology (T1)	6 UOC Level 3 Prescribed Elective (See Notes 2)	BIOS6671 Biodiversity and Conservation of Natural Resources (T3)
6 UOC Free Elective	6 UOC Science Elective	BIOS3061 Plant Ecology (T3)
6 UOC Free Elective	6 UOC General Education	

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Note 1: Level 2 Ecology Prescribed Electives: BIOS2061 (T2), GEOS2821 (T2), BIOS2031 (T3), BIOS2051 (T3), BIOS2123 (T3),

- **Students who wish to take GEOS2821 are required to take one of GEOS1111 OR GEOS1211 as a science elective.**

Note 2: Level 3 Ecology Prescribed Electives: GEOS3911 (T1), BIOS3081 (T1), BIOS3161 (T1), BEES3041 (T2), BIOS3011 (T2), BIOS6723 (T2), BIOS3171 (T3)

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Genetics (BIOCC1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BABS1202 Applied Biomolecular Sciences (T2)	6 UOC Free Elective
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)	CHEM1021 (T1, T2, T3) OR CHEM1041 (T2)	6 UOC Free Elective
MATH1131 (T1, T2, T3) OR MATH1141 (T1, T3) OR MATH1031 (T1, T3)	MATH1231 (T1, T2, T3) OR MATH1241 (T1, T2) OR MATH1041 (T1, T2, T3)	

Year 2		
MICR2011 Microbiology 1 (T1)	BABS2202 Molecular Cell Biology 1 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
6 UOC BIOS****	BIOC2101 (T2) OR BINF2010 (T3)	BABS2204 (T3) OR BABS2264 (T3)
6 UOC Free Elective	6 UOC General Education	

Year 3		
BABS3121 Molecular Biology of Nucleic Acids (T1)	6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Level 3 Prescribed Elective (See Note 1)
BABS3291 Genes, Genomes and Evolution (T1)	6 UOC Free Elective	6 UOC Free Elective
6 UOC Free Elective	6 UOC General Education	

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Note 1: Level 3 Prescribed Electives: BABS3151 (T2), BINF3010 (T2), BABS3021 (T3), MICR3621 (T3)

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Immunology (MICRJ1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BIOS1101 Evolutionary and Functional Biology (T2)	6 UOC Science Elective
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)	CHEM1021 (T1, T2, T3) OR CHEM1041 (T2)	6 UOC Free Elective
6 UOC Free Elective	6 UOC Free Elective	

Year 2		
MICR2011 Microbiology 1 (T1)	ANAT2241 Histology: Basic and Systematic (T2)	PATH2201 Processes in Disease (T3)
6 UOC Science Elective	BABS2202 Molecular Cell Biology 1 (T2)	6 UOC Free Elective
6 UOC General Education	BIOC2101 Principles of Biochemistry (Advanced) (T2)	

Year 3		
BABS3041 Immunology (T1)	6 UOC Science Elective	PATH3209 Clinical Immunology (T3)
PATH3205 (T1) OR BABS3081 (T2) OR MICR3061 (T3)	6 UOC Science Elective	6 UOC Free Elective
6 UOC Free Elective	6 UOC General Education	

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Marine and Coastal Science (MSCIM1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	MSCI1001 Introductory Marine Science (T2)	BEES1041 Exploring the Natural World (T3)
MATH1041 Stats for Life & Social Sciences (T1, T2, T3)	BIOS1101 Evolutionary and Functional Biology (T2)	6 UOC Free Elective
BIOS1301 (T1) OR GEOS1701 (T2)	6 UOC Free Elective	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	GEOS2821 Introduction to GIS and Remote Sensing (T2)	BIOS2091 Marine and Aquatic Ecology (T3)
6 UOC Free Elective	6 UOC Science Elective	BIOS2031 Biology of Invertebrates (T3)
6 UOC Free Elective	6 UOC General Education	

Year 3		
BIOS3081 Ocean to Estuarine Ecosystems (T1)	MSCI3001 Physical Oceanography (T2)	6 UOC Level 3 Prescribed Elective (See Note 1)
6 UOC Free Elective	6 UOC Science Elective	6 UOC Science Elective
6 UOC Free Elective	6 UOC General Education	

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Note 1: Level 3 Prescribed Electives: GEOS3911 (T1), GEOS3731 (T3), GEOS3921 (T3)

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Microbiology (Handbook link)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BABS1202 Applied Biomolecular Sciences (T2)	CHEM1021 (T1, T3) or CHEM1041 (T2
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	6 UOC Science Elective	6 UOC Science Elective
6 UOC Mathematics Level 1 Core (See notes 1)	6 UOC Mathematics Level 1 Core (See notes 2)	

Year 2		
MICR2011 Microbiology 1 (T1)	BABS2202 Molecular Cell Biology 1 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
6 UOC Free Elective	BABS2204 (T3) or BIOC2101 (T2)	6 UOC Free Elective
6 UOC Free Elective	6 UOC Free Elective	

Year 3		
6 UOC from Level 3 Prescribed Electives (See notes 3)	6 UOC from Level 3 Prescribed Electives (See notes 3)	6 UOC from Level 3 Prescribed Electives (See notes 3)
6 UOC from Level 3 Prescribed Electives (See notes 3)	6 UOC General Education	6 UOC General Education
6 UOC Free Elective	6 UOC Free Elective	

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Note 1: 6 UOC Mathematics level 1 Core: MATH1031 (T1, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3)
Note 2: 6 UOC Mathematics level 1 Core: MATH1041 (T1, T2, T3) or MATH1231 (T1, T2, T3) or MATH1241 (T1, T2)
Note 3: 6 UOC from Level 3 Prescribed Electives: BABS3081 (T2), MICR3061 (T3), MICR3071 (T1), BABS3041 (T1), BABS3021 (or MICR3621) (T3), BABS3061 (T3), BABS3200 (T3)

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Molecular and Cell Biology (BIOCM1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BABS1202 Applied Biomolecular Sciences (T2)	6 UOC Free Elective
MATH1131 (T1, T2, T3) OR MATH1141 (T1, T3) OR MATH1031 (T1, T3)	MATH1231 (T1, T2, T3) OR MATH1241 (T1, T2) OR MATH1041 (T1, T2, T3)	6 UOC Free Elective
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)	CHEM1021 (T1, T2, T3) OR CHEM1041 (T2)	

Year 2		
MICR2011 (T1) OR BABS2204 (T3) OR BABS2264 (T3)	BABS2202 Molecular Cell Biology 1 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
6 UOC BIOS****	BIOC2101 Principles of Biochemistry (Advanced) (T2)	6 UOC Free Elective
6 UOC Free Elective	6 UOC General Education	

Year 3		
BABS3121 Molecular Biology of Nucleic Acids (T1)	BIOC3111 Molecular Biology of Proteins (T2)	BIOC3261 Human Biochemistry (T3)
6 UOC Science Elective	BIOC3271 (T2) OR BIOC3671 (T2)	6 UOC Science Elective
6 UOC Free Elective	6 UOC General Education	

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Pathology (PATHA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BIOS1101 Evolutionary and Functional Biology (T2)	6 UOC Free Elective
CHEM1011 Chemistry 1A (T1, T2, T3) or Higher Chemistry 1A (T1)	CHEM1021 Chemistry 1B (T1, T2, T3) or Higher Chemistry 1B (T2)	6 UOC Free Elective
6 UOC Free Elective	6 UOC Free Elective	

Year 2		
6 UOC Science Elective	ANAT2241 Histology: Basic and Systematic (T2)	PATH2201 Processes in Disease (T3)
6 UOC Level2 Prescribed Elective (See Note 1)	BIOC2101 or BIOC2181 (T2)	6 UOC Science Elective
6 UOC Free Elective	6 UOC Free Elective	

Year 3		
PATH3205 Molecular Basis of Disease (T1)	PATH3206 Cancer Pathology (T2)	6 UOC Science Elective
6 UOC Level3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC Science Elective
6 UOC General Education	6 UOC General Education	

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Note 1: ANAT2111 (T1), BABS2202 (T2), MICR2011 (T1)

Note 2: BABS34041 (T1), PATH3207 (T3), SOMS3232 (T2), PATH3210 (T1), PATH3209 (T3)

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Pharmacology (PHARA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	MATH1031 (T1,T3) or MATH1041 (T1, T2, T3) or MATH1131 (T1,T2,T3) or MATH1141 (T1,T3) or MATH1151 (T1)	6 UOC Free Elective
CHEM1011 Chemistry 1A (T1, T2, T3) or CHEM1031 Higher Chemistry 1A (T1)	CHEM1021 Chemistry 1 (T1, T2, T3) or CHEM1041 Higher Chemistry 1B (T2)	6 UOC Free Elective
6 UOC Free Elective	6 UOC Free Elective	

Year 2		
6 UOC Science Elective BIOS####^	6 UOC Science Elective	PHAR2011 Introductory Pharmacology and Toxicology (T3)
PHSL2101 Physiology 1A (T1)	6 UOC Level 2 Prescribed Elective (See Note 1)	6 UOC Level 2 Prescribed Elective (See Note 1)
6 UOC Free Elective	6 UOC Free Elective	

Year 3		
6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective
6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Science Elective	6 UOC Science Elective
6 UOC General Education	6 UOC General Education	

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^ Note: Students must complete at least 6 UOC of courses with the course code BABS####, and at least 6 UOC of courses with the course code BIOS####.
Note 1: PHSL2101 (T1), BABS2202 (T2), BIOC2101 OR BIOC2181 (T2), BIOC2201 (T3), CHEM2021 (T2), CHEM2041 (T1,T3)
Note 2: PHAR3101 (T3), PHAR3102 (T1), PHAR3202 (T2), PHAR3251 (T1)

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Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Physiology (PHSLA1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	6 UOC Level 1 Prescribed Elective	6 UOC Science Elective
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	6 UOC Science Elective	6 UOC Free Elective
MATH1031 (T1, T3) or MATH1041 (T1, T2, T3) or MATH1131 (T1, T2, T3) or MATH1141 (T1, T3) or MATH1151 (T1)	6 UOC General Education	

Year 2		
PHSL2101 Physiology 1A (T1)	PHSL2201 Physiology 1B (T2)	6 UOC Level 2 Prescribed Elective
6 UOC Science Elective	6 UOC Level 2 Prescribed Elective	6 UOC Free Elective
6 UOC Science Elective	6 UOC General Education	

Year 3		
6 UOC Level 3 Prescribed Elective	6 UOC Level 3 Prescribed Elective	6 UOC Level 3 Prescribed Elective
6 UOC Science Elective	6 UOC Free Elective	6 UOC Free Elective
6 UOC Free Elective	6 UOC Free Elective	

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Level 1 Prescribed Elective: BIOS1101 (T2), CHEM1021 (T1, T2, T3), CHEM1041 (T2), PHYS1111 (T1, T3), PHYS1121 (T1, T2, T3), PHYS1131 (T1, T2, T3)
Level 2 Prescribed Elective: BIOC2101 (T2) or BIOC2181 (T2), NEUR2201 (T2), BIOC2201 (T3), PHAR2011 (T3)
Level 3 Prescribed Elective: NEUR3121 (T1), NEUR3101 (T2), PHSL3211 (T2), NEUR3221 (T3), PHSL3221 (T3)

Information is correct as of 30/03/2023 and is based on proposed prerequisites and course availability. This is to be used as a guide only and does not replace individual advice. Refer to the Handbook and Class Timetable for the relevant term to check availability for these courses. Contact The Nucleus: Student Hub for further assistance. CRICOS Provider Code 00098G

Science

Bachelor of Life Science (3966)

2022 Commencing Students – Single Degree – Major in Psychology (PSYCA1)

Choose from available proposed courses in each year

Year 1		
PSYC1001 Psychology 1A (T1, T2)	PSYC1011 Psychology 1B (T2, T3)	PSYC1111 (T3)
6 UOC BABS****	6 UOC BIOS****	6 UOC Science Elective
6 UOC Free Elective	6 UOC Free Elective	

Year 2		
PSYC2001 Research Methods 2 (T1)	PSYC2081 Learning and Physiological Psychology (T2)	PSYC2101 Assessment, Personality and Psychopathology (T3)
PSYC2061 Social and Developmental Psychology (T1)	6 UOC Free Elective	PSYC2071 Perception and Cognition (T3)
6 UOC Free Elective	6 UOC General Education	

Year 3		
PSYC3001 Research Methods 3 (T1)	6 UOC Level 3 Prescribed Elective (See Note 1)	PSYC3011 Research and Applications of Psychology (T3)
6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Level 3 Prescribed Elective (See Note 1)	6 UOC Free Elective
6 UOC Free Elective	6 UOC General Education	

NOTES

This is intended as a guide only. Courses do not need to be studied in the exact structure that they appear here.

See Program Structure on page 1 for a guide on the terminology and colour codes used in this progression plan.

Note 1: Level 3 Prescribed Electives - Students must take 18 UOC of the following courses with at least 6 UOC from List A and 6 UOC from List B.

- **List A: PSYC3211 (T1), PSYC3221 (T1), PSYC3241 (T1), PSYC3051 (T2), PSYC3311 (T2), PSYC3371 (T3)**
- **List B: PSYC3341 (T2), PSYC3361 (T2), PSYC3301 (T2), PSYC3121 (T3), PSYC3202 (T3), PSYC3331 (T3)**

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