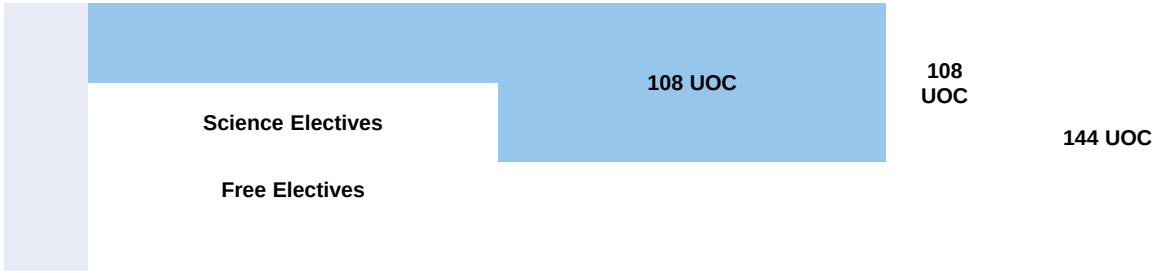
Science

Bachelor of Science (3970) - Handbook



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 Science (3970)

2022 Commencing Students Double Degree Major in Anatomy (ANATA1

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	BIOS1101 Evolutionary and Functional Biology (T2)	Other Degree Course
6 UOC Mathematics Level 1 (See notes 1)	Other Degree Course	Other Degree Course
CHEM1011 Chemistry 1A (T1, T2, T3) Or CHEM1031Higher Chemistry 1A (T1)	Other Degree Course	

Year 2		
ANAT2111 Introductory Anatomy (T1, T2)	ANAT2241 Histology: Basic and Systematic (T2)	Other Degree Course
6 UOC Level 2 Prescribed Electives (See notes 2)	Other Degree Course	Other Degree Course
6 UOC Science Elective	6 UOC Level 2 Prescribed Electives (See notes 2)	

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)	Other Degree Course	Other Degree Course
6 UOC Science Elective	Other Degree Course	

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Bachelor of Science (3970)

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	**COMP1511 Programming Fundamentals (T1, T2, T3)**	**CHEM1021 (T1, T3) or CHEM1041 (T2)**
MATH1131 (T1, T2,		

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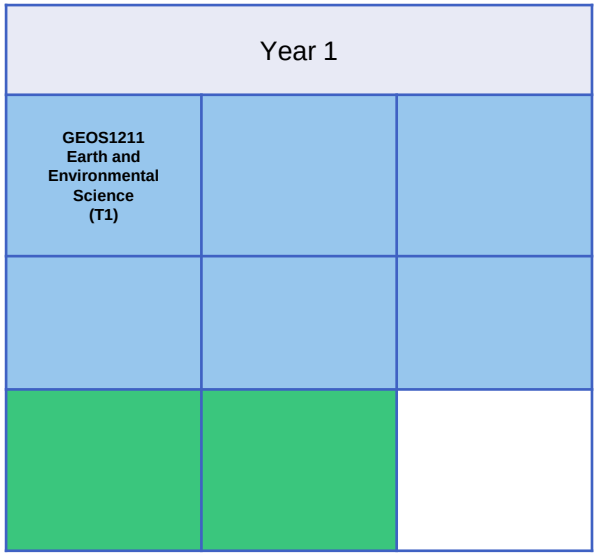

Science

Bachelor of Science (3970)

2022 Commencing Students Double Degree Major in Earth Science (GEOLS1)

Choose from available proposed courses in each year

Year 1		
GEOS1211 Earth and Environmental Science (T1)	Other Degree Course	GEOS1111 Investigating Earth and Its Evolution (T3)
MATH1041 Statistics for Life and Social Sciences (T1, T2, T3)	Other Degree Course	BEES1041 Exploring the Natural World (T3)
Other Degree Course	Other Degree Course	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	GEOS2181 Earth Materials (T2)	GEOS2131 Field Methods and Mapping (T3)
6 UOC Science Elective	Other Degree Course	Other Degree Course
Other Degree Course	Other Degree Course	

Year 3		
6 UOC Level 2 Prescribed Elective (See Note 1)	GEOS2821 Introduction to GIS and Remote Sensing (T2)	GEOS3141 Mineral and Energy Resources (T3)
6 UOC Science Elective	Other Degree Course	Other Degree Course
Other Degree Course	Other Degree Course	

Year 4		
GEOS3171 Earth Structures (T1)	6 UOC Level 3 Prescribed Elective (See Note 2)	6 UOC Level 3 Prescribed Elective (See Note 2)
6 UOC Science Elective	Other Degree Course	Other Degree Course
Other Degree Course	Other Degree Course	

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Year 1		
BIOS1301 Ecology, Sustainability & Environmental Science (T1)	**GEOS1701 Environmental Systems, Processes & Issues (T2)**	**BEES1041**

Bachelor of Science (3970)

Year 1		
BIOS1301 Ecology, Sustainability & Environmental Science (T1)		

Science

Bachelor of Science (3970)

2022 Commencing Students Single Degree Major in Geography (GEOGG1)

Choose from available proposed courses in each year

Year 1		
BIOS1301 Ecology, Sustainability and Environmental Science (T1)	GEOS1701 Environmental Systems, Processes and Issues (T2)	BEES1041 Exploring the Natural World (T3)
MATH1041 Statistics for Life and Social Sciences (T1, T2, T3)	6 UOC Science Elective	6 UOC Science Elective
6 UOC Science Elective	6 UOC Free Elective	

Year 2		
BEES2041 Data Analysis for Life and Earth Sciences (T1)	GEOS2711 Australian Climate and Vegetation (T2)	GEOS2721 Australian Physical Environments (T3)
6 UOC Level 2 Geography Elective (see Notes 1)	GEOS2821 Introduction to GIS and Remote Sensing (T2)	6 UOC Science Elective
6 UOC Free Elective	6 UOC General Education	

Year 3		
GEOS3911 Environmental Impact Assessment (T1)	GEOS3761 Environmental Change (T2)	GEOS3921 Coastal Resource Management (T3)
6 UOC Level 3 Geography Elective (see Notes 2)	6 UOC Free Elective	6 UOC Science Elective
6 UOC Free Elective	6 UOC General Education	

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.

1. Level 2 Geography Elective: GEOS2241 (T3), GEOS2291 (T1)
2. Level 3 Geography Elective: BEES3041 (T2), GEOS3731 (T3), GEOS3811, GEOS3821 (T1), GEOS6733

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Bachelor of Science (3970)

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	**BIOS1101 Evolutionary and Functional Biology (T2)**	**Other Degree Course**
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	**CHEM1021 (T1, T2, T3) or CHEM1041 (T2)**	**Other Degree Course**
Other Degree Course	**Other Degree Course**	

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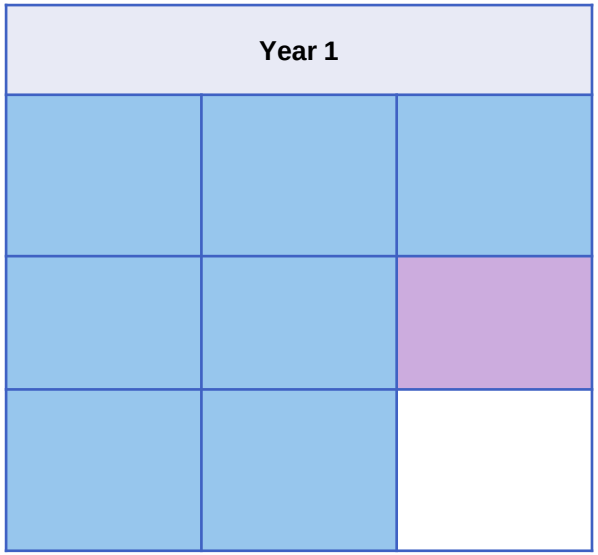

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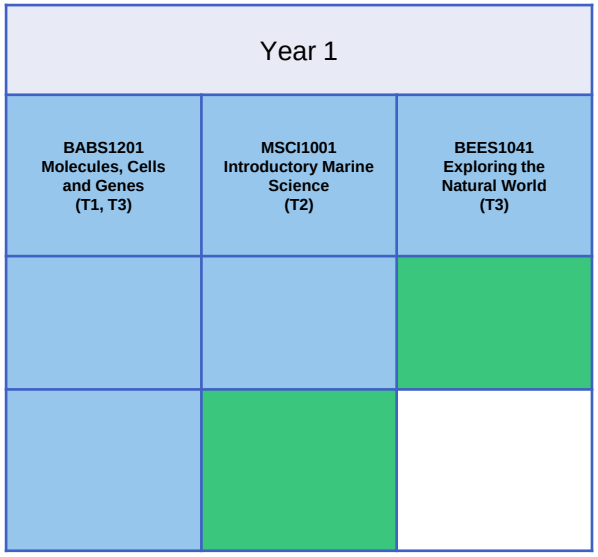

Bachelor of Science (3970)

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 Mathematics Level 1 Core (See notes 2)	6 UOC Science Elective
6 UOC Mathematics Level 1 Core (See notes 1)	6 UOC Science Elective	

Year 2		
MICR2011 Microbiology 1 (T1)	BABS2202 Molecular Cell Biology 1 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
6 UOC from Level 2 Prescribed Electives (See notes 3)	6 UOC * nBT/F1 7.02 Tf1 0 0 1 358.1 18.58 Tm0 g0 G[(T)4(his)-3( )13(is)-3( )13(t)-3(3(is)-3( )1n1F2 6 Tf1 0 0 1 2913o3( )1n1F2 6 Tf1 0 0 1 2913o3( )1n1F2 6 Tf1	

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Bachelor of Science (3970)

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 Mathematics Level 1 Core (See notes 2)	Other Degree Course
6 UOC Mathematics Level 1 Core (See notes 1)	Other Degree Course	

Year 2		
MICR2011 Microbiology 1 (T1)	BABS2202 Molecular Cell Biology 1 (T2)	BIOC2201 Principles of Molecular Biology (Advanced) (T3)
6 UOC fromMC /T/F2 6 Tf1 0 0 1-(T)4(3)-3())]TJETQ EMC /Span80 lity for these cours		

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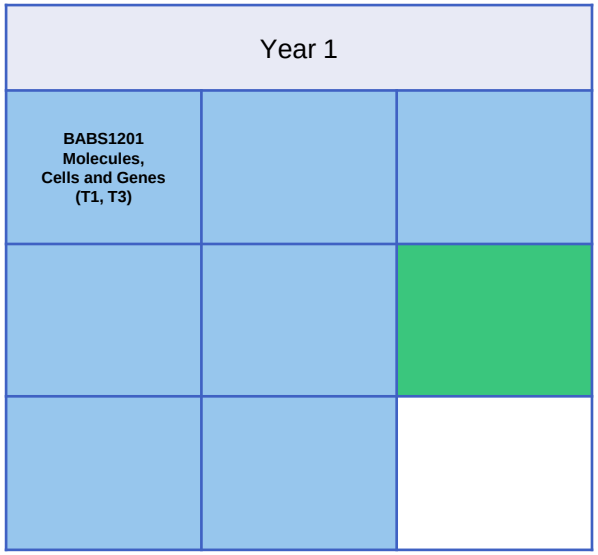
Bachelor of Science (3970)



Bachelor of Science (3970)

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	**BABS1202 Applied Biomolecular Sciences (T2)**	**Other Degree Course**
MATH1131 (T1, T2, T3) OR MATH1141 (T1, T3) OR MATH1031 (T1, T3)	**Other Degree Course**	**Other Degree Course**
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)		

Science

Bachelor of Science (3970)

2022 Commencing Students Single Degree Major in Neuroscience (NEURS1)

Choose from available proposed courses in each year

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	MATH1041 Statistics for Life & Social Sciences (T1, T2, T3)	6 UOC Level 1 Prescribed Elective (See Note 1)
PSYC1001 Psychology 1A (T1, T2)	PSYC1011 Psychology 1B (T2, T3)	6 UOC Free Elective
CHEM1011 (T1, T2, T3) OR CHEM1031 (T1)	6 UOC Free Elective	

Year 2		
PHSL2101 Physiology 1A (T1)	NEUR2201 Neuroscience Fundamentals (T2)	6 UOC Level 2 Prescribed Elective (See Note 2)
6 UOC Level 2 Prescribed Elective (See Note 2)	6 UOC Level 2 Prescribed Elective (See Note 2)	6 UOC Science Elective
6 UOC Free Elective	6 UOC General Education	

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

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: Level 1 Prescribed Electives: CHEM1021 (T1, T2, T3), CHEM1041 (T2), BIOS1101 (T2), PSYC1111 (T3)
Note 2: Level 2 Prescribed Electives: ANAT2111 (T1, T2), PSYC2001 (T1), PSYC2081 (T2), ANAT2511 (T3), PHAR2011 (T3)
Note 3: Level 3 Prescribed Electives: ANAT3411 (T1), NEUR3121 (T1), PHAR3202 (T2), PSYC3051 (T2)

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Bachelor of Science (3970)

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	**BIOS1101**	

Bachelor of Science
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Bachelor of Science (3970)

Year 1		
MATH1131 (T1,T2,T3) or MATH1141 (T1,T3)	MATH1231 (T1, T2, T3) or MATH1241 (T1, T2)	PHYS1221 (T1, T3) or PHYS1231 (T1, T3)
PHYS1121 (T1, T2, T3) or PHYS1131 (T1, T2, T3)	6 UOC Science Elective	6 UOC Science Elective
6 UOC Science Elective	6 UOC General Education	

Year 2		
MATH2241 Introduction to Atmosphere and Ocean Dynamics (T1)	MATH2121 (T2) or MATH2221 (T2)	6 UOC Science Elective
MATH2301 Mathematical Computing (T1)	6 UOC Science Elective	6 UOC Free

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Bachelor of Science (3970)

Year 1		
PHYS1121 (T1, T2, T3) OR PHYS1131 (T1, T2,T3) OR PHYS1141 (T1)	MATH1131, Maths 1A (T1,T2,T3) OR MATH1141 Higher Maths 1A (T1,T3)	MATH2069 Mathematics 2A (T3)
PHYS1221 (T1,T3) OR PHYS1231 (T1, T3), OR PHYS1241 (T2)	MATH1231 Maths 1B (T1, T2, T3) OR MATH1241 Higher Maths 1B (T1, T2)	Other Degree Course
Other Degree Course	Other Degree Course	Other Degree Course

Year 2		
PHYS2111 Quantum Physics (T1)	6 UOC Physics Level 2 or 3 Electives (See Note 1)	Other Degree Course
MATH2089 Numerical Methods and Statistics (T1,T2)		

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Bachelor of Science (3970)

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Bachelor of Science (3970)

Year 1		
BABS1201 Molecules, Cells and Genes (T1, T3)	**6 UOC Level 1 Prescribed Elective (See Note 2)**	**Other Degree Course**
CHEM1011 (T1, T2, T3) or CHEM1031 (T1)	**Other Degree Course**	**Other Degree Course**
6 UOC Mathematics Core Level 1 (See Note 1)	**Other Degree Course**	

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Science

Bachelor of Science (3970)

2022 Commencing Students Double 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 Science Elective	Other Degree Course	Other Degree Course
Other Degree Course	Other Degree Course	

Year 2		
PSYC2001 Research Methods 2 (T1)	PSYC2081 Learning and Physiological Psychology (T2)	PSYC2101 Assessment, Personality and Psychopathology (T3)
Other Degree Course	Other Degree Course	PSYC2071 Perception and Cognition (T3)
Other Degree Course	Other Degree Course	

Year 3		
PSYC3001 Research Methods 3 (T1)	6 UOC Level 3 Prescribed Elective (See Note 1)	PSYC3011 Research and Applications of Psychology (T3)
PSYC2061 Social and Developmental Psychology (T1)	Other Degree Course	Other Degree Course
Other Degree Course	Other Degree Course	

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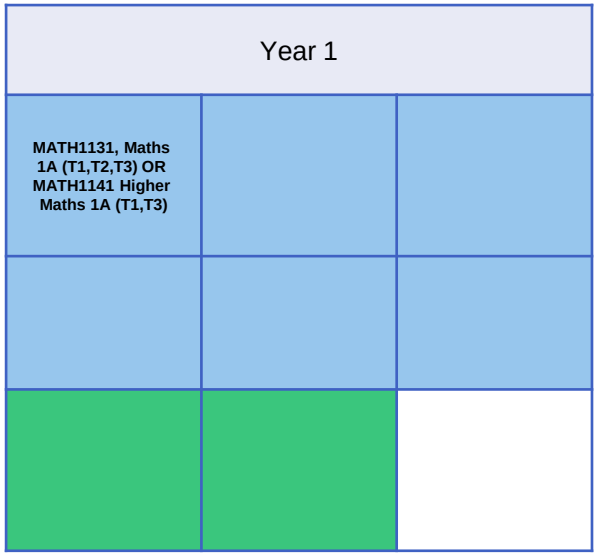
Bachelor of Science (3970)



Science

Bachelor of Science (3970)

2022 Commencing Students Double Degree Major in Vision Science (VISNA1)

Choose from available proposed courses in each year

Year 4		
6 UOC Science Elective	**Other Degree Course**	**Other Degree Course**
6 UOC Science Elective	**Other Degree Course**	**Other Degree Course**
Other Degree Course	**Other Degree Course**	**Other Degree Course**

NOTES

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In double degrees with Law or Engineering, a further 48uoc of

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